37½
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Brown

Lectures on Botany

A N D

Materia Medica

By

Benjamin S. Barton.

Delivered at the University of Pennsylvania

In the Session of 1811 & 1812.

Taken by

Leaf of Venus Virginia Dr

Dionaea a few years ago but one species of this was known we are now acquainted with three it took its name from Quapes a Negroe man who first employed it in intermittents in Savenah with success

It is perhaps not sufficiently known
That after the stomach by long use
Has lost, or has greatly impaired its
Susceptability to action of a medicine
This will act with fresh and
unabated force if applied to the
Rectum Veritas

Frazera Verticulata

This is a new aquisition to the Materia Medica it is a native of New York Penns^{a} Kentucky Ohio & Jonesee I have covered it in New York & Kentucky it is called Colombo It is very nearly allied to colombo in its bitter up and appearance I do not think it much inferior

Gentiana Centuria or Lesser Centuary It is a

native of Europe and this country it grows in Jersey and Penns^{a} the leaves and roots are the parts employed in medicine The Bitterness is extracted by S^{t} of Wine better then by water D^{r} Murry says this is less Antiseptic than the Gent Lutea The Gen Centuary is certainly not as good as the yellow Gentian it more frequently purges when given in large doses it does not always agree with the stomach when given in large doses as well as Gentian it has been given in Saundice it may be of service in such cases of this disease as depends on a torpor of the liver There are several of the species of Gent found in the United States that are not to be met with in other countries Yet it has not been discovered that the Hoped any peculiar virtues more than the common yellow Gent Before I leave it. it may be proper to observe that the Gent Cent is not the Centuary to be found in our Gardens and markets but of entirely different Genus

Gentiana Linearis

This is the most pure of all the Gentians in Bitterness it is a native of Penns^{a} Virginia &^{c}

Quassia a few years ago but one species of this

was known we are now acquainted with three it took its name from Quassy a Negroe man who first employed it in intermittents in Surinam with success

Quassia Amara It grows in south America Surinam and Java it is said to be Snakeroot but you may smell it by applying a piece of it to your tongue. It is an intense bitter the bitterness prevades every part of the tree its roots and blossoms are more bitter most Physicians throw away the bark but this is as good as the wood

Fevers It has been used as a substitute for Bark in the cure of intermittents with success it has also been used with great advantage in the Remmittents of Surinam In continued fevers it has been found efficatious in some instances than the Peruv Bark it may be used in combination with Virginia Snake Root in intermittents when the Quassia is given alone in fevers it may be given in doses of 18 or 20 grains every hour or two Dr Monro used it in Dyspepsia Chlorosis & Pica with advantage also in Dropsy in doses of 15 or 20 grains 3 or 4 times a day Mowry has a high opinion of it

Dr Lettsome says its the best of all medicines in affections of the Stomach Hysteria Atony &c He used it in the following manner viz. To 3ss of the powder he added 3i of white vitriol upon which he poured 3viij of Boiling water and boiled the whole down to 3vi of this when cold he gave 3ss 4 or 5 times a day I think it impossible to tell which produces the best effect in this prescription for we know Vitriol is a powerful ~~Tonic~~ Tonic

Simplicity should be aimed at in all our prescriptions

Bergius has used Quassia with advantage in Gouty cases It is much to be regretted that he did not give us the history of the cases in which he found it successful for our ignorence of its use renders the administering of it without the risk of doing harm and from what was said when speaking of Lettsom in Gout you may conceive that I consider the use of Bitters in Gout generally a dangerous Practice The Quassia Amara has been recommended in Calculous cases and in debility of the Primæ Viæ

In the former case it can only be used with advantage when the Patient is debilitated and no inflamatory action present

In Chronic Diarrhœa which is frequently owing to weakness of the Intestines this medicine has been found of great use Some has combined Colombo with it when given in this disease

Quassia Excelsa or Polygama of Linny This is a tall tree which grows abundantly in the Island of Jamaica and is there called the bitter wood and in taste is similar to that Just treated of It contains a pure bitter in great abundance in every part of the tree except the pulp of the wood The bitter is the greatest in the wood Physicians in the Island of Jamaica say they have employed it in Dropsy with great success which supervened long continued inter mittents and Remittents which had debilitated the patient very much They have also used it in Chlorosis Amenorrhœa with advantage it may be a proper remedy for Dyspepsia and partic larly in those cases of it called by Sauvages Pica and known a mong the planters by the name of dirt eating disease of the ne groes The dose is from 15 grains to ℈i three or four times a day

Quassia Simaruba or Mountain Quassia the virtues of this medicine are extracted by water and Alcohal cold water extracts more than hot it has been used with success in many cases of Ch Diarrhœa some have recommended it highly in Dysentery but used in this disease it can only in the last stage and after all inflamatory action has subsided For if given before it must inevitably do harm I conceive that it can only be of use in Dys enteria cases after all inflamation is gone and when Tone ness is kept up by debility of the Intestines Moura gave it in Doses of ℈ij to ℈iij every four hours Dr Cullen thinks it inferior in this disease to Chamomile flowers Lauda num combined with this Species of Quassia increases its virtue

Habitueal Cholics accompanied with bloody stooles have been frequently removed by this bitter Dose ℥i

Authers caution us against using Simarouba in Dysentary when from its long continuance or any other cause we are induced to believe that ulcers exist in the Colon or Rectum for as they in such cases it will do harm Dr Rush says that in Putrid fevers it has prepormed wonders the fevers which he calls putrid were attended with great debility loss of voluntary motion Coma Great Perspiration but sometimes Burning sensations of the skin with great drynes low delerium and Subsultus tendinum with a most violent Diarrhea so as to cause the patient incepently to go to stool the evacuations of a dark colour and in a great number of cases petechia over the whole body —

Cardus Benedictus or blessed Thistle is a Native of ~~Lisbon~~ Caisa It possess considerable bitterness which is best extracted by water Cold it has been used externally as a Cataplasm and fomentation in Cancer in which it is said to have been of late it has been given in Intermittents and Yellow fever which is nearly allied to the Plague but it must of been after the inflamatory stage It is most generally used to assist in the operations of Emetics this is the only way I have ever used it —

Colomb This is a Native of Asia is one of the most powerful of all Bitters and perhaps the purest with which we are acquainted its active parts reside in the Resin It gives out its Virtues more to Pirituous than to a waters menstrum Dr Percivel first introduced it and made experiments on the Heart and Arterys its stimulant effects were not very perceptible nevertheless like other bitters I believe it to stimulate He used it in Dysentary and said it was useful in cases where Astringents could not of been used (i.e) in the first stage In the City we have only used it as a Tonic Dr Dr Monro found it useful in Bilious Vomitings after the bowels had been well opened he said it produced the happiest effect —

In almost all cases of vomiting it is a good remedy In Nausea from want of apetite which pregnent women are subject to the Colombo is an excellent remedy I have found it useful in Dyspepsia but it must be given in substance and in large doses I frequently combine it with Rubigo Ferri it may be given in doses from 15 to even 60 grains 3 or 4 times a day Dr Johnston has used it with advantage in the Bilious Diarrhea of the East Indias I repeat it again that Colombo is useful only when given in substance and long continued Dr Haliburton told me in 1787 he never knew it hurtful in Gout it is the only bitter that has sustained that Character all others has been considered as containing something narcotic The Infusion or Decoction of Colombo will not be fit for use a day after it is prepared The finest case it contains will ferment and render it unfit for use The Tinct may be made by taking Rad Pulv Colombo Zijss & Spt Vini Rect Oz 1 or 2 table spoonfuls the quantity taken should never exceed Zi every 3 Hours The Colombo has been used in the Cholera of Teething Children with advantage I have given it in cases of Rh gleet in substance with advantage

Humulus Lupulus Or Common Hop its properties are much the same as those of the (Bitters Aromatic) some Authors have a high opinion of its Lithontriptic Virtues Mr Ray from calculation declares that Calculi are less common in the city of London since the use of Hops Sydenham said otherwise 35 years after the introduction of the Hop by Freamus out 1400 patients for the stone not one of whome drank Beer or malt liquor this is a powerful fact but I think malt liquors favor the formation of Calculi Erasmus thought he brought on his by the use of Malt liquors Dr Darwin says that malt drink promotes the absorption of Chyle and thereby produces costiveness according to this celebrated Author Wine drinkers are more subject to Gout and Ale Drinkers to Gravel and he is of opinion they tend to produce Calculus complaints.

I think they lay the foundation for Nephrites and Calculi at
least that has been the case with myself for if I drink a pint
and even less of Porter I am sure to have an attack of Nephritis
May a single glass of Porter gives me pain in the kidneys the same
effect is produced on my brother by the use of Porter perhaps it may
be an Idiosyncrasy therefore do not rely exclusively on the fact
at least search for more Hops possess an Anodyne property A
Tincture of them has been used in Edinburgh which produced
sleep in many cases where opium has failed Hop Pillows
produce gentle slumber they produced sleep in George III when
nothing else would my method of making the Tincture of Hops
is by adding to ℥ 3iv of the best Hops 3viij of Alcohol and
digest for a considerable time then Philos Dose 60 drops
which is equal to 20 of Laudanum It does not leave that disag
reeable Headache Nausea or unpleasent Stething of the skin the
next day that Laudanum does - Porter is certainly a powerful
Tonic which depends in a great measure on the Hop Cullen thou
ght there was something Narcotic in the Hop It may be so
but I have no positive proof of the fact The Hop is used
as a tonic in many cases of Debility Dr Boerheave used it as a
corroborant It is peculiarly adapted to the low stages of Typh
us fever I believe Porter imparts more strength and durable
stimulus than wine It is certainly a most valuable Reme
dy in Chlorosis But I believe its continued use more hurt
ful than that of wine

Menianthis Trifoliata or Buck Bean its a strong bitter a
native of North America it sometimes Purges and Pukes has
been used in Gout. both water & Spirits extract its virtues. the best
way of using it is in a watery infusion it has been used in Nephri
tis and Autumnal fever I have Relate from others so I
never used it myself

7th

Faba St Ignatii or the bean of St Ignatius It is a

native of the Philippine Islands the acid is perhaps the most intense
Bitter known the 64th part of a grain applied to the tongue leaves
a sensation for some time. It Resembles a considerable Narcotic
quality if given in large doses it Produces Nausea Vomiting
Vertigo cold sweats &c it has been used in Intermittents it
has been highly recommended in Epilepsy Dr Darwin has used it
in Epilepsy but does not extol its virtues. 3ss of the Powered seed was
given to a dog in a short time it produced Convulsions and death
Dr Lewis says that 2 grains are equal to 3i Bark I have never
used this Medicine

Nux Vomica This is the product of a tree in the

east Indias where it is used as a specific against the bite of a
snake the seed of the plant is the Nux Vomica of the shops they are
of an Orange colour upon Chimical Analysis they yield a
Gummous and Bitter matter It is more poisenous to Dogs than
men it produces sleep but not that which is natural
An Animal made to sleep by this vegitable you may cut off
limbs without his being conscious of it 3ss killed a large
Mastiff dog in 4 hours caused Stupor and Apoplexy the Animal
could neither see hear or feel The Nux Vomica has been used
with success in intermittents when combined with Gentian
In Dysentery it has been given in the quantity of 6 or 10 grains to Adults
in a clyster it has been used as an Anthelmintic and is said to possess
great virtues in expelling Lumbrici The Tincture is generally used It
has been used with great success by a Taylor in Vienna in Lectures
and a man may take three times as much as a large Dog It
has been used in Lumbrica or round worms with advantage
Cotton dipped in a Solution of it and applied to the umbilicus
has expelled worms I have never used this Medicine
Myself

8th

Fumaria Officinalis or common fumitory of the English. The sensible qualities are a Bitter without Odour
a watery extract on being set aside affords Chrys tals resembling
Nitre which burns and detonates in the fire This is one of
those medicines used by the Ancient under the name of Lues
ver of the Blood Dr Cullen says this medicine is useful in ma
ny cases where Bitters are ~~often~~ employed it is of service in
Cutaneous eruptions approaching to Lepra

Anthemis Nobilis or Chamomile There are 3 kind
The flowers of Chamomile has long been celebrated as a Stomach
it was employed in the 17th Century before Bark was discovered
in Intermittents Dr Morton who was cotemporary with Syden
ham thought it equal to the Peruvian Bark Dr Hoffman has
a high opinion of this medicine he gave the powder in doses
from 30 to 60 grains in Intermittents with success It has been tho
ught an Antidote to Flatulent Cholic This I cannot believe it
may be useful by its Cathartic quality in combination with
the Bark it has been used with some success in Intermittents
Dr Pringle says that the gripes in Dysentery were prevented by its
Antispasmodic power Cullen found it useful in Diarrhea
he cured Intermittents with it it has some what of an emetic
quality an infusion is frequently used as an assistant to the
emetics the dose of the Chamomile is from 3ss to 3i every 2 or 3 hours

Tanaseta Vulgare By Lamey its a powerful bitter
tho less so than the Chamomile Gentian or Quassia it had fallen
into disuse but was revived again by Dr Clarke for the cure of Gout
(Vide Med Commentaries) Dr Hoffman thought it an excellent
Anthelmintic and from the experience I have had of it I think it
may be of service I think I once found it useful as a Glyster
in a case of Ascarides.

Artimesia Absinthia or Wormwood The leaves possess more more bitter then the flowers and are to be preferred in practice when taken into the system its bitter qualities are taken into the milk and can into the flesh as in the sheep it has a strong and peculiar smell it gives out an essential oil on distillation which is destitute of any bitter qualities It has been said to possess a Narcotic property but this is thought to depend on Idiosyncracy Bergius & Cullen thought it produced confusion in the head it has been used with advantage in intermitting fevers also in Nephrytes in one case this medicine translated a pain from the stomach to the Urethra and produced Gonorrhea Benigna it is said that the oil is an excellent Anthelmintic.

Brucea Named in honour of its discoverer Mr Bruce its a tree that grows in Abyssinia Mr Bruce says its a pure and simple bitter it is much used in Arabia in Dysentary Mr Bruce used it himself with advantage Dose a tea spoonful of the powder several times a day

Zanthoriza Americana or Yellow Root It is an Indegenious plant and found in many parts of the U States It is nearly allied to Colombo Its a pure Bitter and pervades every part the Bark and Root possess the most bitter and when tasted it produces a sense of pungency to the tongue much greater than that of Colombo & by infusing it in water an elegent yellow colour is produced with a poisonous smell like Colombo it is destitute of Astringency In Kentucky it was used in place of Colombo and it is said with success its leaves are similar to those of parsley Dr Woodhouse has written on it (Vide Med Reposit N-York) he has given it the improper name of Zanthoris or Linctorid having never used it myself I can say nothing from experience of its Virtues.

Hydrastis Canadensis This is very nearly allied to the Colombo and Zanthoriza the Root is intensely Bitter and some what Poisenous (Vide My Collections)

Aristilochia There are four species viz. Aristilochia longa Aristilochia Serpentaria Seneka Polygala and Spigelia Marylandica or Carolina Pink Root

Aristolochia Longa a native of the southren parts of Europe it received its name from its being said to possess peculiar properties in promoting the Lochia It is sometimes called Birthwort from its supposed power in expelling the Fœtus This bitter constitutes the Baris of a Powder from its having relieved the Duke of Portland in a fit of the Gout and was called Portland Powder This Powder is composed of Aristilochia Gentian & per Centuery & according to Dr Murry 50 or 60 Persons took this Powder and in less then 2 years afterwards all died the dose is ℥i every morning for 3 monthes — Dr Barton says that Gout is apt to terminate in Apoplexy & Hydrothorax & — without ever using any Bitter Aristochia is said to be so powerful as to destroy the Villous coat of the Stomach The Root is the part used —

Aristochia Serpentaria or Virginiana Serpentaria This belongs to the same class it has not been found any where but in North America There are different kinds of this root which ought to be distinguished The Noted Racemosa or Squaw root Polygala Seneka & Spigelia Marylandica The Virginia Snake root contains a Bitter combined with an Aromatic Principle It contains a Gummy extract from the experiments of Sir Jno Pringle It is found to be an Antiseptic out of the Body & is a Tonic and consequently a Stimulant as it always raised the Pulse and increased it in force and frequency It must be used with great circumspection as it will raise the Pulse considerably — consequently it will be improper in all inflamatory cases Dr Cullin says that it is of service in all cases of Typhus Mitior

Combined with Bark it was much more stimulating than the Bark Dr Killary used it in the second stage of Yellow fever The writings on this subject are worthy the attention of every student He began to administer the Aristolochia Serpentaria generally in the third day sooner if the case required it in some desperate cases where the pulse sinks sooner Considerable caution is requisite in the exhibition of this medicine for if given in the first inflamatory stage it never fails to do harm Sir Jno Pringle used it in the low stages of malignant fever Dr Mitton found it of great service in Plague when the Patients were much weakned Dr Morton used it in intermittents with advantage In all cases where the Bark & wine can be given the Serpt may be added always with advantage as I have proved by frequent experiment A Respectable practitioner in N Jersey informed me that in a fever which became epidemic in his neighbourhood in the month of November he used it with great success The symptoms of this fever were a pain in the side and head Coma Burning heat on the skin attended with Convulsions Petechia and frequently Sudamina tho tenderness all those that were bled died. His mode of exhibiting it was as follows to 3ß of the Spt Tincture was added 3i of the strong decoction of the Snake Root The Decoction is the preperation I have generally used and except it can be reduced to a fine powder and given in pills taken I think the decoction is the best preparation for we cannot give the Tincture in doses from 3ß to 3ij but we are unable to employ the Tincture where there is danger of exciting inflamation It can never be given in such large doses in decoction on account of the stimulating nature of the Menstrum An agreeable and efficatious Tincture may be made by adding to 3iij of the Snake Root Hiij of Spirits

Citrus Aurantium or Orange Peel It is bitter and contains a volatile aromatic oil the Cortex or Bark of the tree has been used with advantage in Intermittents It has cured several cases of Quarten fever The dose ℥i in powder every hour The leaves were highly celebrated in Holland in the cure of Pilepsy Colica Pictonum & last experience does not confirm their utility In Austria they were used in Chorea Sancti Viti but as we know this disease frequently disappears when we are not taking medicine Ipresume the leaves of the Sancti Viti Orange tree have more credit in the cure of Sancti Viti than they merit

Cascarilla This is brought to us from the bohamia Islands and particularly of the name of Cleuthra it is a Cordial and Stimulant some what allied to the black snake root It was used in the 17 & 18 centuries in Intermittents and Remittents by the Italians from their great aversion to the Bark they were obliged to substitute many medicines for that one and valuable article in the Norway pine (P.C) a species of the Plague the Cascarilla was found more Beneficial than any other medicine Bergius says it is of more service in Hypnotosis than many medicines that are used Dr Cullin thinks it must do harm in these cases I also doubt its efficacy for the Discharge is either active or Passive the active occurs 99 times the 100 the Cascarilla has not been used much this city It was more in use when I was a student then it now is I can say very little from my own experience respecting it.

Grey Liquor This is obtained from the nut of a tree that grows in the West Indies — The nut is used it possesses the same properties as other medicines of this class but in a greater degree (Vide Dr Neals Publication) He says he has used no tonic that is more efficacious then this in Debility of the Genital Dose 5 or 8 grains in a day

Golden Thread It is a strong bitter and has the common properties of other bitters but possess some peculiarities. Reubarb An Infusion of the Root is a good bitter and may be used as other bitters It is principally used in Debility of the Stomach. (a cold water infusion is best)

Eupatorium Perfoliatum This grows abundantly in wet situations in the neighbourhood of this city it is known to the country people by the name of Through Wort in Virginia it is called Crop Wort because its leaves are opposite By the Indians it is called Ague Weed.

It is a Tonic Tudorific Cathartic and emetic it has been given with advantage in Intermittents in the form of tea It has been used with advantage in the Yellow fever of this city its a tolerable substitute for the Bark it has been exhibited with advantage in Herpetic eruptions It has been given in Virginia in a disease called the James's River Ring worm a Species of Herpes it attacks the Lattices and Gluteii muscles from whence it proceeds to the Anus and up the Rectum proving troublesome and often dangerous in this disease the Eupatorium is given in Decoction 2 oz as to Puke and Purge Cataplasms and fomentations are also used with great advantage (fresh leaves) every part of the plant is employed but the flowers are best I think it ought to be kept in our shops it is certainly procurable in the Chamomile (Vide my notes)

Amygdala Amara The Bitter Ammond is the product of a tree that resembles the peach tree it has been highly recommended in intermittents Bergius says he cured intermittents by the following formula when the Bark had failed Rx Sol Tartar 3ij Ammonds 3i Honey 3ij rubed together in pint and a half of water from 3ij to 3ij thrice a day

Astringent Tonics I have hitherto treated of Tonics possessing Bitterness & shall now go on to treat of those possessing Astringency. or of Tonics properly so called and first of the

Cortex Peruvianus This is one of the most important of all of all the Articles of the Mat Medica it is one of those medicines which were unknown before the discovery of America it is said that its virtues were discovered in the following manner The wife of the Count of Chinchon had a most obstinate Intermittent fever which resisted every medicine made use of at last an Indian woman recommended her to try the Bark she did and was cured by it afterwards she gave it to every person in her Neighbourhood that was effected with intermittents and from its being uniformly successful it came into general use and went by the name of the powder of the Countess of Cinchon when the Count returned to Spain he carried a quantity of the Bark with him and gave it into the hands of the Jesuits from who administered it to all those labouring under Intermittents from this circumstance arose the name of Jesuits Bark a few years ago there were only two species of the Bark known there are now 18 species known

1st **Cinchona Lancifolia** This is the officionalis of Linnæus Sydenham was the first who introduced it into Europe it received its name from its leaves resembling a Lancet This is the species that has received the name of the Pale Bark it grows in Peru on the Andes and on the Banks of small rivers when permitted to grow it attains a large size equal in diameter to a mans Body and very tall Agreeable to Mr ——— generally 8 or 10 inches in diameter

2 **Cinchona Oblongifolia** The leves of this species are broader then those of the former it grows to 120 feet in hight and is 8 inches in diameter it is a native of Peru Santa fe and other places This is the species which corresponds with the Red Bark and was first used by Sydenham in 1779

4 **Cinchona Ovalifolia** Is shaked discovered by Linnæus in Peru

3 Cinchonia Cordifolia This is a nice tree from 15 to 20 feet high a native of Peru This Bark was known to Physicians as early as 1740 This has been supposed to be the tree from which the Yellow Bark is obtained but I think not Linnaeus confounds this with the former

5 Cinchona Excelsa of Roxburgh

6 Cinchona Caribea Discovered in Cuba and found also in Jamaica where it is called the sea side bark it grows to 80 feet in height

7 Cinchona Longiflora a native of Guiana

8 Cinchona Spinosa native of St Domingo

9 Cinchona Phylitica

10 Cinchona Colombifera

11 Cinchona Limeana

12 Cinchona Floribunda a native of Jamaica it proves emetic in small doses but is used as a tonic

13 Cinchona Boaticarsia

14 Cinchona Angustifolia

15 Cinchona Pinkneea

As the Bark is evidently a native of this country it could not of been known to Europeans before the discovery of America from the arrival of the Spaniards to the introduction of it to Europe was more than 100 years America was destined to afford mankind one of the most important medicine we are acquainted with it was in 1638 that the Countess of Cinchon first used it

The Properties of the Bark were known before the arrive of the Spaniards in America perhaps Centuries By the Indians

Its Sensible Qualities when chewed for a considerable time or if you hold an Infusion in your mouth you discover Bitter Astringent and Aromatic qualities we have no exact Chemical analysis of it but The Red kind Saunders has given us an Analysis of it it contains more Resin and is more Antiseptic than the Pale

Bark and Iron does not strike a black Colour

Fourcroy has also Analysed it an Infusion of it precipitates Lime from its water. Salius says that he discovered some years ago that the principles wherein the Virtues Resta was a mere Dr Duncan has Tincture to which he gave a Cinchonia name given the name of Cinchonine to this principle the same has been found in the Gum Kino

The Peruvian Bark is one of those substances in which bitter and Astringents are Combined sometimes an Aromatic property has been discovered in Bark tho none of its powers depend on this property Its a powerful Tonic Its a most valuable remedy in Dyspepsia giving tone to the stomach it seems to act on the solid parts of the Stomach and is then communicated to the whole system Neither Bitters nor Astringents operate by are calculated to cure intermittents Hence the Tonic Power of the Bark depends upon the combination of the two as Bitters and Astringents are both Tonics when given in their simple state their virtues must certainly be more than given in combination I have been induced to believe that Bark acts by causing a new action

The use of Bark in different diseases & first of

Intermittents It deserves the highest Character in the cure of Intermittents — Dr Boerhaves Rule was to give it after the disease had continued for some time and urged the Patient Van Swieten inculcates the same Practice

J Hunt

I think it should be given immediately after the first paroxysm
In regard to simple intermittents it is a question whether we
should wait for the recurrence of Paroxysms I think we
should not It was a law among the Egyptians that the diseases
are should not be disturbed for the three first days under a
heavy penalty It is many times important to give the Bark as
soon as possible In Tertians we should give the Bark immediately after the first Paroxysm for we might not have it in our
power to give it after the second Do not believe that an early exhibition of Bark causes Dropsy but rather believe that Dropsy
ensues for want of an early exhibition of Bark — Can Bark be
given without a previous preperation In most
of the cases of intermittents in Pitts & its vicinity there are some
inflamatory symptoms & where inflamation is present you should
bleed or give an emetic Before you exhibit the Bark the Tertians
and Quartans of our Autumn are so inflamato as to require several
or Sections before the inflamatory action subsides I think emetics
should not be given where there is an inclination to puke for they
excite the irritability of the stomach which we should by all
means try to allay otherwise the Bark cannot be retained When
there is a Diarrhea I think emetics peculiarly proper Generally
speaking I prefer Purgatives as preparatives to the exhibition
of Bark for which purpose I give 4 or 5 ℔s of calomel combined
with 10 or 20 of Rheubarb I frequently combine small doses of
Rheubarb with the Bark for 3 or 4 first days and sometimes
throughout the treatment Bark has cured intermittents even
when it Purges When great obstructions of the Viscera are combined with a violent intermittent not attended with inflamation
I give the Bark internally and order the abdomen to be rubbed
with Mercurial Ointment (on the indurated part) twice or thrice
a day Sometimes combine Calomel with the Bark so as to
produce gentle Ptyalism &

I grant that there are some cases in which the Bark may be given when the intermissions are very short the Paroxisms very violent and great debility existing in such cases it may be dangerous to delay any time Since such cases have given the Bark in large doses immediately before the Paroxism came on & with advantage In Quartens & think the Bark can be given with more success before the expected Paroxism than it can in Tertiens & Quotidians There are some violent cases of Tertiens occur in this City & suburbs where if the Bark is not thrown in largely soon after the sweating stage goes off and continued until the next Accession the Patient will scarcely survive A question here naturally presents itself can the Bark be given in the hot stage of the fever many Authors say it can with advantage my opinion is different for I never gave a dose of Bark just before the fever came on or in the hot stage but what it increased the fever I am at least certain it cannot be given in Pennsylvania during the hot stage. It may be given in Tropical countries with more success than in Cold countries In the Febris Malignis Saporosa of some Authors or a fever attended with Coma or collegriatic symptoms Diarrhea and always with great debility The Bark has been given with manifest advantage. There are some Tertiens attended with a determination of blood to the head There occur frequently in Monroe and are called by Dr Coleshorn Apoplectic Tertiens in these Coleshorn gave the Bark in large doses The Bark may be given in all fevers that assumes an intermitting type The Gout when it puts on an intermitting type should be treated with bark but with me bark has generally been hurtful in Gout.

Remittents The Bark is useful in Remittents as well as intermittents
Remittents prevail at the same time & arise from the same
cause viz. Marsh Miasmata Hence they are not conse-
quently different species but are only varieties of the same
the intermittent becoming Remittent and Vice Versa but
Bark should not be given in Remittents while inflamatory
action exists in the System.

Typhus This disease has been supposed to arise wholely from
human effluvia but I have known it arise from
Marsh Miasmata also it is in the first stage an inflamatory
fever and in the first stage the Bark is injurious In giving Bark
we should be always governed by the Pulse as long as it remains tense
and full the eyes inflamed &c the Bark should not be used. But
after the inflamatory action has subsided and a disease of debility
exists it can be given with the utmost prospriety and advanta-
ge Typhus has been called a continued fever but it does
not always assume the continued form It has distinct Inter
missions where the Bark should alway be given

Plague I have never seen genuine plague but I think the
Yellow fever Plague and Typhus are all the same thing In the
first stage evacuants are proper the Bark proves hurtful until
the inflamatory action is gone when it should be used very liberally
In Dr Dowers account of the Plague he mentions that he had
100 patients he bled them largely they all but 8 recovered & these
& he supposed destroyed themselves by strong drink of Bulo & Petechia
accord he found in the Bark — R — cured fevers nearly alli-
ed to the Plague with the Cinchona Morton used it in the same
disease writers describe very different diseases under the name
of Plague

Yellow fever

Yellow Fever This is treated as a continued fever but the Remissions are often very distinct it sometimes puts on a Tertian Type it is a true Synochus and is usered in by inflamatory symptoms In 1793 the disease was called a putrid fever in the first stage Bleeding Purging and Antiphlogestics were emplosed with advantage The Bark was very useful after the full pulse pain &c were removed Dr Bruce found it useful in the early stage I cannot agree with him in this —

Synocha This arises from cold and all those causes which produce Remittents & Intermittents it is always inflamatory in the commencement and the Bark generally if not always does harm This fever occurs in Phlegmasia here I may observe then in primary inflamations the Bark is injurious But where inflamation occurs as a symptom of intermittent which is sometimes the case and where great debility prevails at the same time the cinchona can be given with great advantage

There is a disease sometimes seen in this city but which frequently occurs in the southren States and known by the name of

Yellow Fever It commences with a rigour afterwards a fever sometimes of an intermittent but more frequently of a Remittent Type the pain is sometimes periodical but more frequently constant it is attended with delerium Loss of voluntary motion & Apoplexy. In this disease Bleeding has been very generally injurious and never fails to increse its mortality The Bark must be given in large doses in which manner a cure is frequently accomplished The Bark may be assisted by Blisters applied near the seat of the pain which generally relieves it There are cases of Pneumonia where general Bleeding has been carried to so great an extent as to debilitate the Patient to such a degree as to prevent these remedies being longer persisted in And yet the pain remain and assume a periodical or intermittent form in such cases the Bark is our best remedy. By using a little more mustard in our food than usual the blood will [illegible] have a Buffonjt

Dysentery The Bark has been strongly recommended in this disease Cullen found it hurtful in the first stage he says Dysentary depends on a constriction of the Colon but I have elsewhere told you it depends on inflamation of the intestines it sometimes puts on the appearance of an intermittent and then the Bark is an invaluable remedy and should be given in large doses. I have seen Yellow fever appear under the mask of Dysentary Morton used Bark in dysentary when connected with fever he combined it with opium and being the first one who used opium in this disease he deserves much Praise. Pringle used it in this disease Douglas put great confidence in it In 1784-5-&6 the dysentary assumed a certain form in Philadelphia and I think it was much more commonly connected with fever then it is as Recent Young Physicians should admit the use of Bark in Dysentary with great caution.

Exanthemata These fevers are always inflamatory in their first stages and the Bark is injurious before the inflamatory action has subsided Bark has been given by some in the eruptive fever of the smallpox but it must have done immense injury and destroyed the lives of a majority of those who took it

Dr Cullen says he scarcely ever saw a case of Variolus eruption in which the Bark was not proper but allowing it capable of favouring suppuration it does not appear that this occurs during the eruptive fever Cullen says it is of the putrid kind Bark Cullen says might act from its Antiseptic power and be proper but he never saw such a case in which it would be proper however I differ from Dr Cullen a febrile state of the system is necessary for suppuration which is sometimes present and consequently the Bark would be improper A certain degree of fever is necessary to form the eruption and it frequently happens that the debility of the system is so great and the circulation so languid that it is necessary to excite an artificial ~~circulation~~ increased Action for which purpose the bark has been advised all Remedies

Gout concerning the use of Bark in this disease there is a great diversity of opinion some say it is very useful while others have a contrary opinion — My opinion of this medicine in Gout is that it can be of little service in intermitting Gout when very great debility exists Bark has been said to be of service but in my own case it always causes stricture acroſs my breast I would restrict the use of bark entirely in case of regular Gout attended with great debility and when it has seem attacked the Head or Stomach.

Hamorhage There are two species the active and Passive I believe that 99 in 100 are of the active kind. Epistaxes is of the active kind and Bark must be improper

Hamoptosis Cullen found this disease to be very generally inflamatory and the Bark injurious. I should prescribe Bark with reluctance in Hamoptosis because I think hemorages are generaly of the active kind and require Bleeding Digitalis & the Acetate of Lead

Menorrhagia This is commonly active but sometimes depends upon laxative causes or relaxation of the parts There with Dr Collin I would recommend the Bark

Hematura In homorage from the kidneys and Bladder Bark is of little service when from the kidneys they are perhaps in a lax condition and the Bark is useful I have found the Uva ursi useful in this disease I have combined it with Opium why may not the Bark be useful in all kinds in homorages — In two cases of this kind I found the bark given with lime water with great advantage

Scurvy Lind recommends the bark highly in this disease it is an excellent dentifrice It may be used in powder or Decoction for diseased Gums in scurvy or lessen the ſetor from putrid and decayed teeth. There are some cases of scurvy when Bark combined with vegitables are of service —

Erysipelas This disease has been treated very differently in Edinburgh and London in Edinburgh it was treated by Cullen and others as an inflamatory disease in London Dr Baberden &c gave Bark I have always been obliged to use the Antiphlogestic plan and sometimes to a very great extent hence it is similar here to what it is in Edinburgh but not to what it is in England.—

Measles This is an inflamatory disease and it cannot be supposed that the bark will be useful I have seen many hundred cases and not one where V Section was not necessary I have even Bled Children three or four times. Bleeding Purging and low diet should be prescribed The looseness which follows measles is best treated with Bark

Cholera Morbus This disease sometimes require bleeding but often Clysters and opium sometimes it assumes the Tertian form then bark may be given with very good effect

Catarrh In the inflamatory state of this disease the bark should not be used There are two cases in which Bark may be used with advantage 1st When the affections are combined with an Intermittent 2d When they are habitual Cullen says in true Habitual Catarrhs depending on a weak perspiration and a weak state of the Heart and Arteries Bark can be given with success Here sometimes there is a great accumulation of fluids in the Lungs which can only be obviated by strengthening the ~~Lungs~~ stomach for which Bark is the most proper remedy There is some truth in this observation for there are many who have Narrow Chests that are troubled with Catarrh In every inflamatory affection of the Lungs the Bark should be advised with the utmost circumspection

Phthisis This in its early stage is connected with an inflamatory diathesis Dr Cullen was of opinion that 9 cases out of 10 the bark was injurious. Where Hectic fever attended Phthisis and assumed a Tertian type the Bark sometimes suspended it but it frequently returned —
The Physicians of the U States I believe are unanimously of opinion that Bark is injurious in the first stage of Phthisis but that it does service when the Hectic fever supervenes — There is a species of Phthisis described by Morton depending on simple debility accompanied with a constant discharge of mucous from the Lungs in which bark has been used with the greatest advantage —

Dropsy When dropsy follows a Remitting or Intermitting fever or any cause that has induced great debility and weak morbid action in the system bark may be given with great advantage and if given in the declension of those diseases it will prevent the effusion of water therefore in such cases Bark ought never to be dispensed with &c

Scrophula This disease depends upon a laxity of the system according to Dr Beddoes the scrophula is attended with a deficient Oxygenation of the blood the Bark has often cured this disease The Fossile Alkali has been highly recommended in the cure of scrophulous ulcers either alone or combined with bark

Cancers I do not think the bark has ever effected a radical cure in this disease though Sheliene with Cullen that it amends the discharge from the ulcers Dr Aikenside of London had a high opinion of it and has used it in combination with Hemlock and Corrosive Sublimate

In Spasmodic Diseases and first of its use in

Epilepsy This sometimes depends upon an organic affection of the Brain Hence the Bark can be of no service sometimes it is owing to Plethora in such cases it may be of service after depletion Dr Cullen says that in Epilepsy attended with periodical paroxisms and debility he found the bark of service — The Mineral Tonics such as Sulphate of Zinc and Cub Ammoniacum have been used with some success.

Tetenus I have had but little experience of the use of Bark in this disease here I will observe that Tetenus is produced by various internal and external stimulants Poisons produce it I once one case of Tetenus by Bleeding (this is the case that Dr Chapman alluded to in his inaugural dissertation) it was brought on by the wound of a Nail in the foot in those cases that fell under the care of Dr Rush the Bark &c were used But I think too much has been ascribed to the Bark as large quantities of Wine were given with it the same should also be considered.

Chorea Sancti Viti This disease at a certain time of life depends on a great mobility of the system in this disease Bark and Zinc have Been given by Cullen. This disease frequently yields to the Tonic plan cases occationally occur which yield more readily to a contrary method of treatment I was once called to a pregnent Lady effected with Chorea her pulse were moderately full and I advised her to loose ℥vj of Blood which entirely cured her

Chin Cough I generally bled in the early stage of this disease and with very decided advantage the fever is generally of the intermitting type but sometimes remitting the bark may be given with advantage in the intermissions and remissions. The disease was epidemic in Germany and the Physicians of that place say that they give the bark with considerable advantage after the inflamation had subsided when the Cough becomes habitual and is unattended with congestion the bark will remove it.

Asthma When the Paroxism of this disease depends on plethora of the System or turgescence of the lungs the bark is hurtful but when it depends on a Mobility of the system the bark is useful

Angina Pectoris or Asthma Convulsivum In this disease the bark should be used with the greatest circumspection and care as the disease is of the Gouty kind Mr — was bled several times in this disease without effect but was cured by the plentiful use of Digitalis it bringing on a Copious Diuresis

Hysteria This is frequently accompanied with plethora of the system Many diseases have been discribed under the head of hysteria The Bark combined with opium has removed a dark melancholy there are cases of hysteria where the bark would be injurious and other cases where it might be given with efficacy.

Jaundice Does it depend on a weakness and torpor of the alimentary canal if so may we infer the usefulness of Bark from its Tonic and stimulant properties. When Jaundice is owing to Gall stones Bark can be serviceable only by its purgative qualities

Gangrene This is of two kinds the first without the second preceded by inflamation Mr Hunter defines inflamation to be an increased action of vessles of the part effected when gangrene is preceded or accompanied with inflamation Bark never fails to increse the inflamatory action and thereby renders the complaint more violent but after the inflamatory action has subsided and debility remains bark can be given with advantage and should be exhibited largely to support the system Bark will not succeed in curing the bite of poisonous animals The poison is a powerful stimulus and destroys the animal fibre.

Of the External use of Bark Helvetius in the 17th Century used it as an injection others have used it in the same way since when given as an enema three times the quantity should be given as when given by the mouth some has advised a poultice of Bark and wine applied to the belly in intermittents. Dr Pye has advised it quilted in linnen from two to six ounces to Children he even used it in those above seven years He used the quilted Jacket or Shirt in Tertian intermittents and remittents — He made it by quilting the bark in a double shirt and wore near the skin it certainly can be employed with great advantage in this way to infants

to infants when their tender stomachs will not retain the bark care should be taken to remove the shirt during the paroxisms of the fever otherwise it would seldom fail to increase the fever I cured a Child of my own in this manner and observed if the Jack et was kept on during it would considerably increase its violence the late Mr Bitten house kept off an intermittent by the use of the bark shirt in applying the bark you should reduce it to an impalpable powder the Spanish Physicians succeed more frequently in consequence of their attending to this. some writers recommend another way of applying the Bark viz.t by bathing the feet and legs with it in intermitting and remitting fevers - When the Bark has failed to cure intermittents the cure has been effected by Mercury Arsenic &c.a But the bark if properly managed will cure 99 cases in the 100 sometimes when the bark has failed I have combined it with mercury and by that means succeeded. these means however are not to be preferred to the bark for we find on a comparative view that the bark will cure ten cases where other remedies cure one. Tonics other remedies fail 12 times where they succeed thrice but the bark does not fail more than once in 20 times. The bark has been used as a poultice in old ulcers and gangrene the infusion and Decoction has been used as a wash to ulcers when foetid or tending to gangrene and mortification.

Cortex Angusturæ This is a recent aquisition to the Mat.a Medica it is found in South America there is a great variety in the external appearance of the bark which may arise from the difference of season and the tree from which it is obtained but these varieties all agree in their taste and more important qualities it is intensely bitter and slightly aromatic leaving a strong sense of heat in the throat and fauces the odour is singular either cold or warm water extracts its Bitter quality and Spirits the Aromatic and Resinous parts The cold infusion is sometimes to be preferred as it retains all the Aroma of the bark which is lost in a great degree in the Decoction The Best tincture is made with the Dulcified Spt. of Nitre Brandy extracts the virtues equally well.

This Bark is an excellent Antiseptic certainly more so than Cinchona the pure resin is not soluable in water and therefore should not be given by itself the extract is perfectly soluable for which reason it is to be preferred as a Medicine — The dose of this Bark is from gr.s 10 to ℈i every three hours The Angustura mixture of Brandt is composed of ℥viij of this Bark ℥ss of the zest of oranges and ℥ij of the Spt. Lavend. comp.

its use in Diseases Sporadic Dysentary & Diarrhœa it has been used with success by the London Physicians Brant prefers it in Nervous Diseases to Cort Peru because he says it does not so frequently run off by stool but considerable allowances are to be made for his prejudices. It is more stimulating than the Cort Peru and for this reason may be more efficatious in low fevers — A case of Dysentary accompanied with Petechia was removed by 3ß of the Decoction of the Angustura taken every two hours —

Intermittent Fevers The Angustura has been used with great success in this disease some say it is preferable to Cinchona but I believe few of us will accede to this — — — —

Gangrenous affections of the Throat as a general Tonic it is useful in these affections — — — —

Headach There are some cases of Headach which return periodically in which this medicine has been justly celebrated for its good effects

Chlorosis In this disease the Angustura has been said to be more effectual than any other Tonic when combined with Arom —

Pertussis Some have used it in this disease but do not approve of its use in the early stage it may of been useful where the disease has continued for some time and is only kept up by Debility and Habit in which case it acts as a tonic giving strength to the whole body This medicine is to be preferd to the Cinchona in diseases of Children as it more readily remains on the tender stomach I think it a valuable medicine. — — — —

The tree which furnishes us with this medicine is not known it was formerly thought to be the Magnolia

Magnolia Glauca Sassafras or big Beaver Vida D. Bigs Desertation

Magnolias Magnolia Tripitata a Native of the U States The common name of this tree is Umbrella Tree

It is a warm aromatic Tonic with some astringency nearly allied to the Angustura Vida Elliots Desertation

Magnolia Acuminata or Cucumber tree used by the Hunters in Virginia for Rheumetism — — — —

Liriodendron Tulipifera Tulip Tree as it is improperly called proper tree the leaves of this tree possess the same qualities as its Bark. The leaves are used in Virginia to produce sweating and Vesication for this use a large cake is bound on the body and suffered to remain untill the effect is produced if one fail more are added in this way they have been used by Dr Coxe who applied them to the feet when very cold and in certain diseases he first wet the leaves with milk he says unless care be taken to dip them in milk they will not produce the effect. for further information on this subject I refer you to a dissertation written by My Pupil Dr Rodgers he has given the best Analysis that was ever given of a Vegitable I have found that the leaves of the Tulip tree has been employed with great advantage in the Gout they are laid on the part affected in a heat they ease mainly sweat it is immaterial whether they are green or dry.

Cerasus or Prunus Virginianus The wild Cherry tree is well known in America there is great similarity in the flavour of the bark of this tree and the inner kind of the nut of the Peach the bark of the Root is the best for use it has been used in intermittents it is certainly a desirable Tonic and Anthelmintic It has been employed in Dyspepsia with very great advantage In Lumbar Abcess when Healing attends it it has been used with very great advantage It has also been given with advantage in the sinking stage of a Consumption (Vide New York Med Repos

Salix Alba or White Willow The Bark of this is more Astringent then any other of the kind the old bark is most Astringent it is used in Tanning hence we infer its Astringency as an Antiseptic it is said to be superior to the Cort Peru. The Bark & leaves have been recommended in Gout Hemorages obstructions of the Liver &c

There are three Species Salix Alba Salix Pentandria & Salix Latifolia

Aesculus Hippocastanum or Horse Chesnut This has been highly recommended by late writers in the cure of intermittents 3ss to 3j taken between three paroxisms. Good Bark may be obtained from a tree of moderate size in the spring It has given ease to tones hopeing more power.

Æsculus Flava or Buckeye of this city its a dileterious vegatable and of course
poses's of considerable Medicaal qualities. ——————————

Swietania Febrifuga Mahogany of Hindooston I have used this with e
fecacy in Intermittents I believe it to be the best substitute for the Peruvian
Bark with which we are acquainted it is given in the same dose as the Bark

Iron This is one of the most important articles employed in the M Med
as a Tonic. The immense diffusion of it over the earth is indicative of the
benevolence of the Creator the various preparations of Iron fall under
three Claps The first Clap comprehends. ——————

1st Clap
1 Limatura Ferri
2 Thiops Martialis
3 Crocus Martis
4 Rubigo Ferri or Rust of Iron Dr Cullen begins with doses of 5 fs
and increases it gradually Dr Barton begins with 5 Gr 2 or 3 times a day
He has continued to give it in this way until his patients have
taken 900 or 1000 Gr of the Rust of Iron before it had the desired effe
et He combines it with the powder of Liquorice which makes an
elegent and valuable medicine and prevents its going off by Stoole

The 2nd Clap consists of Iron made soft by its union with an acid

2 Clap
1 Sal Martis
2 Tartris Martialis Dose from 10 Gr to 3i ——————
3 Ferrum Tartrisatum
4 Flores Martiales This should be taken in doses of 4 grains at
first and increased to Di it is remarkably Beneficial when taken in
a liquid form the best way of using it is in the form of a Bolus
or Spirituous preperation it acts as a Tonic Diuretic
it is chiefly used in Nervous and Hysterical Cases ——

The 3d clap is composed of Iron united to an acid but retaining
its liquidity as—

3 Clap
1st Liquor Martis in
Spt Salis Dose from ℥ 3i to 3ij 2 or 3 times a day
2 Vinum Ferratum or Chyllebeatum This is the most
useful of these preperations it is made by adding 3i of the
filings of Iron to ℔i of Wine and suffering it to remain
one month The Dose is from 3i to 3ß This is a most elle

elegant and useful preparation If sits easy on the stomach it is used in cases of debility and to strengthen the stomach I think the Iron filings in substance more useful than any other preparation Simple Iron when taken into the system has been generally deemed inert but there generally exists in the stomach an acid capable of reducing it to a black oxyde hence the Black stools after taking this metal the Gastric Juice independent of an acid has the power of acting on it Iron is rapidly dissolvable in the Gastric Juice Physicians a few centurys ago were of the opinion that Iron possessed two different principles but this opinion is fallacious all the preperations of Iron that are dissolvable in an acid possess one principal in a greater or less degree Tinct. Ferri muriatis it has been said to act as an astringent the pomme is an ambiguous term and Stimulent should be used in its place —

Diseases in which Iron is used

Intermittents That Iron is less adapted to the cure of this disease than the Cort Peru is not to be denied but that some of the preperations of iron will cure intermittents there is no doubt but Iron will never come into general use for the cure of this disease in consequence of there being so many other valuable tonics as Arsenic Cort peru &c The preperations of Iron are useful in all inflamatory fevers likewise in all laxative habits they are good in diseases of persons of strong and plethoric habits & in most diseases attended with debility they are useful.

Gleet There is no disease in which I have used the preperations of iron with more efficacy than in this when combined with some of the bitters as Gentian and Colombo Dr Cullen used them in this way after labouring under a Gleet for 40 years with success Gleet generally originates from Gonorhea in a local debility or the vaples of the part having got a habit of effusing continue it after the cause that produced it is removed In these cases the preperations of iron internal medicines are proper and the preperations of iron are the best we can use they must be persisted in a long time beginning with small doses and gradually increasing them I have managed in this way I have never failed in curing a Gleet of however long standing

Flour Albus This is generally a disease of simple debility and the preperations of iron are the most valuable medicines we can use This I assert from my own experience but where the fever is accompanied with fever the iron is highly improper and will do harm — — —

Amenorhœa or suppression of the Menses this depends upon two causes first when considerable tone of the vessels exists attended with increased flow and frequency of the pulse pain in the head back and loins at every time the menses appear or at every time they had used to appear wild and staring eyes Secondly upon debility of the system generally or debility of the uterine vessels the last is the most frequent cause of the retention of the menses in the first species Iron would do harm and increase the complaint particularly in some cases of Febris Alba for here bleeding purging &c ought to be used But in the second species or that depending upon debility preparations of iron are of always manifest advantage and should never be omitted. When combined with Quina the Iron proves more useful

Hæmoragias There as I have observed are of two kinds viz active and passive in the former the preperations of this mineral are always injurious but in the latter they are always eminently useful the use of iron in hæmorrhagies are of ancient date Pliny the naturalist and many others speak of the beneficial effects of it It was supposed to act by its Astringent quality

Menorrhagia There are some cases of this disease depending upon debility in which Iron is useful though it requires care in the administration of it as the hæmorage is seldom Passive.

Hæmaturia or a discharge of bloody urine when this disease is attended with debility or a Relaxation of the kidneys the Iron preperations should be administered in combination with Quina water or Chamomile tea which should be given in large quantities But as there are two species of this disease namely the inflamatory or that arising from wounds contusions or Calculi and that depending upon debility or want of tone in the vessels we should be careful to distinguish them as bodies would do harm in the first or inflamatory species sometimes it may be inflamatory from the beginning and the patient sink for want of blood In every case however our practice should be guided by the pulse

Epistaxis This is always active and hence the use of iron would be improper here Bleeding and the Antiphlogistic plan is to be adhered to

Hemoptosis This is 99 of 100 cases is of the active kind and the preperations of iron would be injurious

Pulmonary Consumption In this disease the preperations of iron are sometimes used with advantage though they have never performed a cure they have been used in that debility which predisposes to Phthisis perhaps with the effect of preventing the disease in such cases it is my favourite prescription combined with Cretæ ppt. In that variety of consumption described by Mussy & Bonham Iron is of great use

Hemorrhoids This disease sometimes depends on an increased action of the intestinal Arteries &c here the use of iron would be improper but it sometimes depends upon laxety and torpor of the vessels as in the decline of life and in the studious and sedentary in these cases the iron will prove useful and the more so where it proves laxative.

Dyspepsia The preperations of iron have been employed in this disease with more success then any other medicine In Dyspepsia of the young and plethoric habits it might perhaps be used with advantage.

Dropsy In the forming state of this disease I have found iron do harm when exhibited it requires nicety & Caution

Chronic affections of the Liver & Spleen when attended with considerable pain and unaccompanied with fever the preperations of iron prove very efficatious

Modus Operandi of Iron all the various forms of this medicine exert their powers first and chiefly on the Stomach and thence on every part of the body Dr Hodges experiments seem to prove that when iron is taken into the system it makes no further than the mesenteric glands since it was not to be found in the Thoracic duct the blood vessels or urine Notwithstanding these experiments I believe from experiments made myself that the lacteals do not reject every particle of iron and that it may be carried into the general circulation in small particles I have many reasons to believe that the Lymphatic glands are a part of the digestive organs and that the Chyle undergoes some change after it is absorbed by passing thro them I think it not improbable that it will hereafter be discovered that iron is taken up by the absorbent vessels of the system and conveyed into the circulation &c

I immersed the branches of different vegatables in a solution of green vitriol they vegetated freely in it and contracted a large portion of it I could trace the iron in the different parts of the plant the Stem leaves and flowers. &c

Concerning the dose of these preperations I have already observed we should begin with small ones & the best begin with 5 Gr 2 or 3 times a day Perseverence is very necessary in the use of this medicine if it had better be given in small doses and continued for a long time then large doses for a short time I have given 1200 Gr in small doses to remove obstinate fluxes Cullen the Italians prefer the filings reduced to a fine powder they say it is more active then the rust - I always use the rust in combination with Cinnamon powder which both renders it more agreeable and obviates its laxative quality. &c

Cuprum Copper or Venus so called by the antients D^r Cullen places this under the head of astringents but it belongs more properly to the class of tonics since it certainly is both tonic and stimulant That it possess considerable tonic power is inferred from its preventing paroxisms in intermittents in the same way as Cort Peruv. D^r Lewis observes that Copper is insolueable in the Gastric Juice & that it has no effect when taken into the body but such as is mechanical many writers have adopted this opinion but they are all mistaken Like iron when taken in in its first and Metalic State it is Corroded and is even very solueable in the Gastric Juice many facts prove this one of which I will mention A Child accidentally swallowed a Copper Coin in 4 days after it was ejected by stool the Letters were entirely obliterated and the Coin considerably eroded This fact I think decisive

The pernicious effects of Copper when taken into the stomach are a loss of Apetite sickness at the stomach Nausea efforts to Vomit pain in the breast Sea Vertigo paralysis convulsions Apoplexy Delerium Mania Cholic pains Costiveness but often a Laxity of the bowels Exanthematic eruptions and Salivation.

Copper is universally allowed to be a deleterious metal yet it is a well known fact that workers of Copper Mines are as long lived as any other Class of Labourers The religion of those men always enjoins on them the duty of washing their hands before they eat from this circumstance we may account for their health they also wash their bodys 3 or 4 times a week and thus disease is prevented Copper exerts its deleterious effects on other Animals beside man as Dogs horses &^c but not on birds

This medicine has never been used in its simple metalic state but we have reason to believe it might be employed with considerable advantage

Acetate of Copper or Verdigris this is formed by the union of a vegitable acid and Copper it is done by first fomenting the Refuse of grapes in Sour wine with plates of Copper 6 inches long and 3 broad in this state they are left for a certain time after which they are taken out and placed edgewise in a Cellar when they are sprinkled with Sour wine in this situation the verdigris oozes up and

and is then scraped off put into sacks of leather and exported

Acetate of copper is both an astringent and escarotic it has proved useful given internally in Malignent Ulcers it forms the basis of a celebrated Cancer powder by some authors it has been highly recommended in obstinate Ulcers Bells formula is gr viij to 3ij of Olive Oil well rubbed together and used as an injection I have never used it for I think it too stimulating I do not use injections near as strong as Bell & Hunter and cannot recommend too strong injections but stimulating as powerful ones often produce Hernia Humoralis

Blue Vitriol This has been considered as a sulphate of copper but it is a super sulphate of Copper it is proved to be so by a solution of it rendering ——— ——— It has been used with advantage in intermittents the dose should be from 1/4 of a grain to 1 grain 3 4 or 5 times a day as the stomach is able to bear it Dr Adams used it with one eye in two Cases of intermittents that had resisted every other medicine he used it in the form of pills Rx Blue Vit gr iv Extr Bark grs xxxvj M ft in pills No xxvj each of which pills contain 1/4 of a gr of Blue Vit one of these pills should be taken 4 times a day at first at first they produced Nausea but they gradually lost this effect on being used a few days ——— I have had no experience in the use of this medicine but from observation I think it acts more efficaciously when it is made to produce Nausea

Cuprum Ammoniacum This is made by rubbing two parts of the super sulphate of Copper with three of Sal Ammoniac in a glass mortar untill the effervescence is over then dry it in the shade and store it in a Phial for use This has been recommended in many diseases but in none more than the Epilepsy and convulsive diseases In giving this medicine we should begin with 1/4 of a grain and gradually increase it to 1 gr 3 or 5 times a day it has made remarkable cures but too much has been ascribed to it Dr Cullen has given it to the extent of 5 grains and found it more manageable than the Blue Vitriol It has cured many cases of true Epilepsy and has failed in many others Cullen says if no good effects result from its use in a month it should be laid aside lest the system should be surcharged with it and much injury or even death be the consequence The same fears were formally entertained from the liberal use of lead ———

The Cuprum Ammoniacum has been given for a great length of time without indeing the consequences dreaded by Cullen Some removed Epilepsy by this medicine after Bleeding Blistering and Purging had been tried in vain 350 grains were exhibited before the cure was effected it is indeed a powerful medicine its stimulant powers are great hence we should begin with small doses at first. It should be taken when the stomach is empty - It is an observation of that the stomach can bear as much of the flowers of Zinc & Cuprum Ammoniacum when they are combined as of either of them when given alone Thus a Lady could bear 2½ grains of Zinc when taken alone she could bear the same quantity of Cuprum Ammoniacum when given seperately but when exhibited in Combination she could bear 5 grains of each This is a curious fact

The Cuprum Ammoniacum has been used in Dropsy here it seldom fails to act as a Diuretic The Tinct Cuprum of Boerhave has been found useful in this disease — In cases of worms the Cupr Ammon has been used with advantage here it may act in two ways first as a direct poison to the worms & secondly by giving tone to the alimentary canal & thereby causing their elemination.

The escaratic powers of Copper have been long known and since the introduction of mercury has been too much neglected Dr Cullen thought that Copper and Mercury acted alike when they were used as escaratics they seem to act alike on the system especially in producing salivation.

Ulcers Here ulcers seem to depend on a flaccidity of the part hence copper is used with great advantage made into an ointment with Basilicon or Hogs Lard -

Scrofula In a case of this disease in the Penn Hospital I gave the Bark and applied the verdigris in ointment to the ulcers the patient was discharged in a few weeks cured Mercury was not employed

Cancers It has been used in venerial Cancers it may be employed in three ways. powder solution or ointment. In affections of the eyes some of the preparations of copper have been used with complete success. to prevent nausea from Cup Ammon it must as I before observed be given on an empty stomach Cinnamon will also obviate its nauseous tendency

Nitrate of Silver or Lunar Caustic is made by adding 4 parts of Nitric Acid to one part of Silver it has long been and will continue to be used as an escarotic In indolent ulcers a solution of Nitrate of silver proves highly beneficial and it possess this advantage that its strength may be increased to any degree It is remarkably efficacious in removing Leprous eruptions Venereal Buboes and Ringworms when used to remove a Cancer it should be applied in form of solution with a Camels hair pencil immediately to the part taking care to have some water ready to wash it off when the patient complains of pain and when the pain abates renew the application &c Lunar Caustic has been lately used to hasten the Cicatrization of ulcers & for this purpose it has been found superior to any other remedy - Lunar Caustic has been pronounced the most powerful Antiseptic known In 800 times its weight of water it will preserve meat many years.

Dropsy Nit of Silver has been highly recommended in this disease but I have never employed it.

Epilepsy This disease depends upon two opposite causes in some cases Tonics are injurious in others beneficial It frequently happens that medicines loose there reputation by sometimes proving injurious in those diseases in which they have been most extoled The Peruv Bark does not always cure intermittents Digitalis does not always prove Diuretic If dependence could be placed on some facts we should feel no hesitation in declaring that this medicine is sometimes taken up by the Lacteals and carried into the circulation Swediaur gave Lunar Caustic to a patient until it changed the colour of his skin It sometimes induces Diarrhea

Arsenic It has been supposed by some that Arsenic will supercede the use of bark in intermittents but I think this will never be the case Arsenic sometimes cures when the Bark fails In Chilblains where the Bark cannot be used Arsenic may be given I prefer the Oxyde to Fowlers solution it is made in the following manner Rx Oxyd Arsenic gr Lxiv Potash 3ss Aq Font ℔ss Boil this then add ℔ss more of water then add 3i Ol Lavender comm gutts x 3 times a day I have seen the Oxyd prove effectual when the solution was of no service Dr D prefers the Oxyd which is administered in the following way

wog Ry Oxyd of Arsnic gr. i Opium gr. iv to viij made into pills two of which is given every 24 hours — A Man in the Penny Hospital took four grains without injury This medicine should be given with great care In 3 Instances which fell under my care though cautiously given soon it produced Oedematous swellings It has often produced a degree of paralysis in the lower extremeties Arsenic like Mercury sometimes prepares the way for the effectual administration of Bark in the cure of intermittents.

Indolent Ulcers appearing a carious appearence the Oxyd of Arsnic has been applied with advantage and we are informed from the experiments of Dr Stevenson of Fort Pitt that such Ulcers after the failure of Arsenic had been successfully healed or cured by the application of Roasted Onions — Dr Macgwe asserts that the Oxyd of Arsnic predisposes to Pulmonery Consumption but I have never heard of or known an instance of this kind in this Country on the contrary I have known it remove a predisposition to this disease In a case that came under my own notice where the patient was labouring under a Hectic fever and with a very disagreeable Cough the Bark was nauseating to her in the highest degree I consequently exhibited the Arsenic and in a short time my patient was so much the better of her disposition that she was able to go about Not long after this She relapsed when the fever was much more severe and decidedly of the Hectic Type with Phthisis to which she soon fell a victim I prescribed the Arsenic again and with the desired effect.

In Chronic Indurations & Obstructions of the Spleen & Liver in most cases Arsenic has been used with efficacy but it must be used some time to produce salutary effects Darwin relates a case of palpitation of the heart relieved with four drops of a saturated solution of Arsnic this might authorize us to use it in similar cases — — —

Although I have placed this article among the tonics I do not think it acts by its tonic power or qualities in the cure of intermittents & must acknowledge I am not acquainted with its Modus operandi I do not I cannot agree with Dr Darwin when he attributes the cure of intermittents from Arsenic to its stimulating effects on the Stomach &c

In Angina Pectoris & Epilepsy Alexander used Arsnic with success it has been employed by Fowler as an Anthelmintic.
Cancer I can say but little for it in the cure of Cancer from my own experience I believe it is the most active ingredient in all the Cancer powders It was unquestionably the basis of Martins Powder. of the efficacy I once had an opertunity of Judging in a case of a Cancer in the Penn'a Hospital & certainly produced a cure. c

Plunkets composition for Cancers is as follows Ry Crow foot 1. handful Dogs fennel 3 sprigs oxide Brimstone and white Arsnic each 3 thimble fulls mix them with the white of an egg and triturate them in a morter. I have not the least doubt but this medicine has been of infinite service in Cancers but I think it is often rendered more efficacious by the combination of some acrid vegetable substance the Ranunculus or Crows foot is a very active medicine. When Cancers are situated in the uterus topical applications may be made by injecting. The following formula is an excellent one Ry Decoct of Hemlock & Carrots very strong Arsnic.

We are told that the Arsnicum Tartarizat acts as a powerful Diuretic externally applied in Solution. c

Flowers of Zinc This preparation is employed in Fits from gr. iij to gr. ij in this dose it is said to be of great advantage It has been used in the Penn Hospital with great efficacy In combination with Cayenne Ammon it may be exhibited in larger doses than when alone

Super Sulphate of Zinc This preparation deliquesces when exposed to the air it has been employed as a Tonic in Gonnorhea it has also been used in Fits and in Whooping Cough In the latter disease I have exhibited it to Children first in small doses I have increased the dose to ten grains Generally Acetate gr. ij in Zij of water and give to Children of 4 or 6 years of age 2 or 3 tables spoonfuls per hour and I have reason to believe it is preferable to Antimony as it does not produce so violent a Nausea or perversion of the apetite and they take it with much less trouble than they do Antimony

Acetate of Zinc This is a powerful Emetic and operates strongly when taken in the quantity of 4 or 5 grains

In Gonnorhaa and Gleets It has been used by way of injection & is thought preferable to any other medicine.

Bismuth This is a metalic production its external apearance is similar to that of Antimony It has been employed in some diseases gr. ij in 24 Doses with efficacy

Sulphuric Acid This is a good Tonic when exhibited in a diluted state it is truely worthy the attention of a Young practitioner It has been found useful in Fits

Muriatic Acid This has been found useful in Dyspepsia in doses of gutt. x 3 times a day in water It has also been used lately as a remedy for Calculus.

Muriate of Soda or common salt the Tonic effects of this is obvious in the daily use of salted provisions In the low state of Typhus salted provisions prove the best Tonics —

Yet some of the good effects of this medicine cannot be attributed to its Tonic properties as in Hæmoptysis in which disease it proves very efficatious It sometimes cures Nausea and proves strengthning to the Stomach It is said to destroy the teeth but I think this opinion false

Muriate of Barytis Baryte or Ponderous earth from which the muriate is obtained is is never found pure but combined with the sulphuric or Carbonic acids forming sulphate or Carbonate of Barytes. c

The muriate of Barytes is very disagreable to the taste & its effects under some circumstances are deliterious. — In Scrofulous affections it has been recommended in doses from 5 to 10 grains a drops it has also been recommended in venereal Symptoms and in Cancers we have been told it produces a cure in some diseases when the knife has failed. ———

Lime Lime water combined with Milk has been frequently used with the desired effect as an Antiemetic as which occurs in the Yellow fever and other diseases In 1795 I visited a woman in the Yellow fever on the 3d day of the disease she was effected with the black vomit I immediately ordered the Lime water which prevented the vometing for that day The next morning the vometing returned and was arrested by the same medicine In my own case I have experienced the good effects of lime water in Arthritic tic vomitings. It generally proves most useful in the vomitings of Children it sometimes fail when a weak solution of Cyprepedia has been efficatious The dose of lime water is a small wine glassful in as much milk and water 2 or 3 times a day Lime water has been used as a wash in old ulcers In Burns its an excellent application its good effects may be attributed to its Tonic qualities I generally use it in the following way Rx Ol Bals one part Lime water 4 parts agitate together and applied frequently to the effected parts with linnen clothes This is the best application I ever used to Burns.

Of the Lythontriptic qualities attributed to it I can say nothing from my own experience c c c

Muriate of Lime as a tonic this is more entitled to attention then the lime alone It has been highly recommended in Scrophula Dyspepsia Hectic &c we should always begin with small doses and increse gradually say 10 grains - I have used it with efficacy in Bronchocele or Goitre after taking the Nitric Acaid my patient was eventually cured by it after taking 2ℓ grains daily.

Zinc The preperations of this were once highly recommended but none of them seem to merit attention except the powder Dr Black says it produces Cholic the use of this in culinary purposes have been deem hurtful and created uneasiness when it should not have been so thought - It has been recommended as an Anthalmintic in doses from ℈i to ℈ii it has also been recommended as a antispasmodic and is even said to cure Epilepsy Dr Moore used it with efficacy in Epilepsy when it depended on worms as a Tonic it is a feeble medicine Dr Moore supposes that its Anthelmintic powers and its Tonic powers are the contrary I think it acts mechanically or by some unknown property &c

Stimulants or Incitants

Stimulantia Narcotica The term Incitantia is made use of by Dr Darwin but I prefer Stimulantia or Stimulants because it was first employed. The term may be considered synonemous. By Stimulants or Incitants I mean such articles of the M Medica which induce when applied a greater degree of force in the arterial system than the common elements &c &c. &c

The Tonics contain many stimulants as Serpentaria Cascarilla &c &c but the Lead of stimulants I shall place. - - - - - - - - - - - - - -

Opium This is one of the most powerful of Stimulants of the Vegitable kingdom and one of the most useful articles of the M Medica It is the produce of the papaver Somniferum it is generally imported from Prussia Egypt ~~Spain~~ Smyrna &c its colour is brownish and frequently adventitious being derived from the instrument using in incising the head & seeds of the poppies from which the opium is obtained and from the capsules in which it is put in when powdered it is yellowish and has a smell something like Chocolate - Authors differ with regard to the manner of obtaining it. Mr Care has lately written a treatise in which he has shewn that the best method of obtaining it is by incisions into the heads of the poppies out of which it oozes and then inspissating the juice

This is the best method in my opinion it is sometimes procured by boiling & then inspissating it It is also procured by Bruising the heads and preping the Juice out Opium frequently comes to us in an Adulterated state & is generally so adulterated by the common Science of our Farmers Dr Coxe of this City has proved that this vegetable contains opium Large Poppie fields in this country would prove much injurious because in my opinion they would be frequently resorted to in Sorrow and Distress.

Of the effects of Opium when applied to the Living Animal fibre Externally: First when externally applied to the eye urethra and other tender parts it first produces pain and sense of heat and then the sensibility is diminished Its Stimulating effects in the urethra should by no means prohibit the use of it in affections of this part as in Gonnorhea as it may be used without the smallest injury to the patient —

Whether opium when externally applied exerts any narcotic effects on the system is a question on which Authors seem to disagree. Dr Crumps experiments seem to prove that it does while those of others seem to prove to the contrary For the experiments of Crumb Refer you to his book on opium The Theoretical part of his Treatise is an excellent thing but I differ from him in the practical part. c — —

Opium certainly has removed pains of the feet by being applied to the orbits of them Laudanum rubbed on the stomach has removed Spasms and vomiting. Dr Coullin vindicates the opinion of its efficacy when externally applied and prepers the solution He says it acts not only on the parts to which it is immediately applied but that its influence is manifest over the whole system His observation on the external use of opium is worthy the attention of every Student of medicine.

Dr Jackson's experiments go to prove that Opium has no effect on the system when externally applied But from my own observations I can unequivocally assert when applied externally it produces the most characteristic effects. I saw its deleterious effects on one woman by her rubbing it on another There are many other facts I could advance in support of this opinion A woman in this city had Laudanum for some time rubbed on her temples which indeed deep Costiveness and Sickness at the stomach Mania has been removed by rubbing large quantities of Laudanum on them My friend and relative was subject to a pain in his bowels which he —

which he always removed by the external use of opium in the form of a poultice with oil & sometimes produces constipation how does it produce those effects when externally applied is it by acting immediately on the extremeties of the nerves and through them on the general system or does it act through the means of absorbtion.

I recommend the external use of opium for if we do not use it in this way our patients will.

Of the internal use of Opium internally employed opium effects the Vital Natural and Animal functions in Justice to Boerhaave and to correct improper opinions which most Physicians as well as myself have entertained concerning his belief in the action of opium I comfort that he did not consider opium as acting on the fluids as has been supposed but that it acted principally on the stomach and Nerves. 1st Of its effects on the vital functions it increases the fullness and frequency of the pulse laborious breathing &c apoplexy is not unfrequently the result of two large a dose of opium Tickling or irritating the throat with a feather has in many cases caused the system into action when too large a quantity of opium had been taken and by it's being thrown up the patients life preserved Dr Rush ——

Authors differ in opinion with respect to the effects of opium on the pulse some assert that it deminishes the frequency and fullness of the Pulse others that it stimulates and increases the Pulse in fullness and frequency It is uncertain who at first discovered the stimulating effects of opium It has been said to be Cullen but this is not the case It was attributed to Brown but he does not merit the whole claim yet he deserves considerable Claim 1st because he opposed the old opinion 2d because he ordered it in cases of debility Frank long ago declared that opium produced stimulating effects and even before this Dr Bergius wrote a Treatise in which he asserts that opium produced fevers &c

I have now notice Dr Crumps experiments which prove that opium is a stimulant His room was of moderate temperature and all unnecessary motion suspended &c after Breakfasting lightly and his pulse beating 70 in a minute he took

18 gr of Opium 44

2 minutes after this his pulse beat — 70
5 ——— 70
10 ——— 76
15 ——— 78
40 it fell to ——— 72
70 at the natural standard — 70

Experiment 2d to a healthy young man whose pulse beat 44 strokes in a minute he gave 1gr of Opium diffused in a small quantity of water in 5 min after P. 44 in a minute

10 ——— 44
15 ——— 44
25 ——— 50
30 ——— 52
45 ——— 46
60 ——— 48
120 returned to stand 44

Experiment 3d 2½ grains of Opium were taken in 20 minutes slight warmth fullness and frequency of the pulse in 90 minutes dull head ach in 2½ hours all the disagreeable symptomes were increased and finally he threw up the contents of his stomach which relieved him Dr Crumps experiments taken collectively are to a considerable decision they have been confirmed by the experiments of others Dr Haller relates a remarkable case of the stimulating effects of Opium on himself From all these we may infer that the primary effect of Opium is to increse the fullness and frequency of the pulse When therefore we meet with experiments which contradict this opinion we may justly conclude that their immediate and primary action was overlooked in making experiments the pulse should be immediately attended to after giving the Opium more especialy if it was taken in a liquid form yet Does not say it acts instantaniously Dr Barbs experiments seem to prove that Opium is a sedative but they are by no means conclusive as he did not attend to the pulse in many of them till half an hour after giving the Opium. Opium besides increasing the fullness and frequency of the pulse increases the heat of the skin sometimes ——

[illegible]

[illegible]

[illegible]

sometimes a flushing of the face and considerable heat in the palms of the hands these effects are generally relieved by perspiration The Antium is a proof of its stimulating qualities in a general way small doses do not effect the respiration much but when given in large doses it produces all the phenomina of Apoplexy &c

Secondly of the action of Opium on the Natural functions

When Opium is given in large doses or small ones frequently repeated it impairs the apetite and produces sickness at stomach some of the Eastern nations are so well aquainted with this effect that they purchase large quantities to allay the stimulus of hunger and the pains of death That its use impairs the appetite may be inferred from the similarity between its action on the system and that of ardent spirits even when externally applied it acts on the stomach its common effects is to produce constipation tho it sometimes proves laxative It occations a great discharge of flatus from the bowels it increases all the secretions this effect of opium is generally overlooked as it is produced at the same time as the increased action of the Absorbents Does Opium possess any Diuretic qualities Dr Mc in giving it to his venereal patients observed that they had a greater flow of urine than natural Dr D Monroe supposes it to be good in Dropsy on account of its Diuretic properties The experiments of Mr Magnus in the 6th Vol of the London Med Enquiries) favours this opinion I have often observed its producing a greater than natural flow of urine in myself According to authors it salivates but I have never seen it produce this effect It increases perspiration which is often increased by pleurisies or Itching of the skin which not unfrequently lasts for 2 or 3 days This may be prevented by taking with or immediately after a bowl of warm tea of any kind it produces this effect by operating first on the nerves of the brain It sometimes produces disagreeable eruptions on the skin these eruptions have disappeared on laying aside the opium and on resuming it they have reappeared It is said by Haller that in some instances its smell has been perceived in the blood If this be a fact we can say that opium can be carried into the blood and circulate there without injury to the system

Hamm

Opium

Ham Boerhaave gave a dose of it to a dog and upon opening him found the quantity of bile increased in the Stomach and Gall Bladder and Ducts tinged with it this proves the dispensible stimulating properties of opium Dr Darwin has taken an ingenious view of this subject he says that opium and Alcohol increase all the secretions and that this is done by increasing the action of the Absorbents I nearly consent with the Dr but think there are some objections to his opinion Dr Crumb says large doses of opium always induce convulsions this I cannot assent to as I have not seen such effects uniformly follow. — In some of the eastern countrys opium is used in large quantities when the Turks march to battle they take large portions of it which exhilirates their spirits and urges them on Dr Russle says they do not take so much as is generally supposed He states that they take about ℥iij in a day —

A Servent of Dr Stonges of this city took from 15 to 18 grains in a day for Cancer in Utero —

Sir Jno Chard says that the persians have a general preperation of the poppy which they take when a Persian finds himself in low spirits he resorts to opium which he continues till it puts an end to his existance — Dr Young of Edinburgh says opium ought never to be given when Blood letting is necessary as a general rule I think this a good one but I make two exceptions to it first in Nephretic cases attended with pain opium may be given even before V. Sec. and 2ly in the passage of gallstones attended with much pain opium may also be given before V Section is used.

Thirdly the effects of opium on the Animal functions

Great cheerfulness &c proceeds from taking a certain quantity of this drug which continues until intoxication comes on when you wish to bring on intoxication by opium you must give 1 grain every hour until it produces the desired effect this intoxication differs in different Constitutions it increases the venereal appetite and is generally followed by an increased secretion of semen

Hilarity is succeeded by great depression of spirits Languor sleep Coma Apoplexy and sometimes death results but these are not the uniform effects of opium it does not always in large

* Wollcam you did not spell right

Systom for Systems acer for acer

— tain

× hard work to make. Utica Versa; out. but he must

Mean vice, versa. Vice is the abl of vicis & Versa imperativ
mood verso, versare

doses produce convulsions even tho it occations death the convulsi
ons brought on by opium are thought to be of a peculiar kind gre
atly resembling Tetenus they are of the Tonic kind and have intermi
ssions and are liable to a return on the slightest touch some have
contended that opium does not give rise to cheerfulness and it is
really surprising that this opinion should be entertained by some
eminent Practitioners many persons assure us that it produces
the same effect when taken in the dyspepsia as wine does Mr Rich
ardson made some experiments to ascertain the virtues of opium pre
pared by himself which had a considerable effect in raising his
spirits but was soon followed by a proportionate depression.
The effects of this medicine on Children ~~too~~ very young are astonis
hing in bringing on intoxication — Dr Crumpe introduced an
aqueous solution of opium into the eye of a dog it gave great pain
and some heat these effects also followed after introducing it into
a human eye It was injected into the intestines of a Rabbit
ging a dog and opening the Thorax an aqueous solution of this med
icine was found on the heart which was thereby thrown into ac
tion the solution was again applied but no action was produced
but by injecting a portion of it into the veins the heart again
began to act Cold water was then injected and produced simi
lar effects but in a slight degree

Four grains of opium were introduced into the mouth of a frog
its pulse became much stronger and fuller tho the heat of its
body was very little increased great vivacity is induced and the gener
al appetite increased but when used for a long time it impairs
the apetite and Digestion produces intoxication stupor convul
sions Apoplexy and Death these are the effects that follow wine
It is said that Maniacs are rendered furious by opium wine
would not have the same effect opium has a different effect
on Maniacs at different Times Wine does not always prove beneficial
to them opium is generally injurious when wine proves of Service
Versa +

the effects which I have stated to follow the use of opium certainly entitles it to a place among the stimulants. In nervous fevers when stimuli is used to the greatest advantage Opium is by far the most important medicine. Given before the paroxisms of our intermittents it in a great measure prevents the fit by acting as a stimulant In the confluent Small Pox when the most powerful stimuli as Wine and Camphor is used with the best advantage Opium may be considered as one of the most useful stimuli that can be employed Dr Sydenham thought highly of it as a stimulant and Cordiac Dr Huxham also thinks it a powerful stimulant & Dr Darwin has placed it at the head of his Incitantia.c

At the commencement of an inflamatory fever when Physicians would think of using opium or ardent spirits from that contempt for its sedative virtue they seldom use it in such cases and when they do it is chiefly employed as a diaphoretic after copious depletion An objection is brought against its being a stimulant from the well known fact of its relieving pain Pain either depends on an increased or diminished action Opium proves peculiarly serviceable in what are called nervous pains does opium ever afford relief in pain depending on a violent inflamatory action — It does not we should not infer from that. that it is a sedative after its stimulating effects are over a considerable degree of Torpor take their place It does not afford relief before debility is induced by the exhaustion of excitability and then the natural stimuli cease to produce their usual excitement sometimes the torpor which succeeds the exhibition of opium is so great as to produce mortification. Upon the whole we may conclude that Opium is an extremely pernicious drug in the first stage of inflamatory fever In this disease the proper remedies are V.S. Emetics & Cathartics.

Pain arising from discased action is always attended with general or Partial heat whereas that arising from deminished action is neither with Local or general heat What has been said I think will sufficiently prove Opium to be a stimulant I must now pause to admire the beneficial properties of this medicine on the one hand and on the other lament its too fatal effects The evil effects alluded to are principally those which follow a habit contracted from its immoderate use For those who have acquired a habit for using opium to expect it is a desirable thing to find a substitute less liable to injure the system Wine is the only substitute we have

for opium In Mania brought on by the use of Ardent spirits opium has proved a remedy in one case in our Hospital.

Physicians who give their medicine under the impression of its being a Sedative do much mischief and are justly accused of inconsistency

Are there no other stimuli as powerful as opium and at the same time devoid of its Narcotic effects it appears that the narcotic properties of every medicine are in an inverse Ratio to its force as a stimulant — The diminution of sensibility and the sopor by the action of opium is similar to the loss of sensibility in the eye after the action of a strong light The analogous effects of a stimulus are in proportion to its degree of force as an excitant.

Modus operandi of Opium It is to be regretted that we are so little acquainted with the modus operandi of Stimulents in general The operations of some medicines may be explained purely on Chemical and Mechanical principals as is manifest by connecting an acid in the stomach and destroying worms in the alimentary canal opium relieves pain by lessning sensibility and it lessens inflamatory pulse by lessning irritability Dr Crumps experiments would lead us to believe that the electric fluid is the most powerful of all Stimulants Alkohol next then opium &c — this gradation is entirely incorrect an over dose of opium brings on Paralysis Dr Hunter examined persons who died of an over dose of this medicine and in every instance he found the stomach much inflamed and Turgid the Brain was also considerably inflamed and in some cases influsions had taken place

Of the use of Opium in Diseases

In continued fevers These have been divided into many classes Dr Cullen has only three viz. Synocha Synochus and Typhus

Typhus This is frequently produced by Miasmata and putrid water these clases of fevers are all inflamatory in the commencement and opium was a sedative the duration of this inflamatory state bears according to the violence of the stimulus producing them the more powerful the stimulus the shorter the duration from this circumstance many have confound the Plague unattended

with an inflamatory stage The inflamatory state of those fevers are either removed spontaniously or by proper Repleting remedies as V.S. cathartics &c- after which Opium may be used with advantage as a general rule by in those cases I think wine superior to Opium In this fever is sometimes attended with delerium when this is the effect of increased action in the Brain as in the inflamatory state Opium would always prove injurious V.S- should be used first in such cases but when the Delerium is occationed by great debility, as is the case in the last stage of Typhus Opium and wine should be given by all means be resorted to Dr Sydenham thinks that Opium should never be given before the 3rd day in the Typhus stage of fever but in exhibiting this medicine we should be governed entirely by the state of the System hence no regular time for its exhibition can be fixed. The preceding use of Opium will often prevent Delerium that frequently attends this fever and the life of the patient often depends on this precaution - Dr Gilcris was the first who warmly recommended the use of Opium in this disease and to his Spicy I refer you as it contains valuable information on this subject -

When this medicine is omitted the nights of the patient are long with watchfulness and pain

Opium combined with Camphor is warmly recommended by some eminent ancient practitioners The dose to an Adult is from 1 grain to one grain and a half combined with ten of Camphor this should be varied according to the age of the person &c- In Subsultus tendinum convulsions & Maniacal Delerium Opium is our sovereign remedy and should be given as circumstances require in the Delerium depending on Torpor it induces sleep

A Diarrhea sometimes attends a continued fever here Opium is chiefly to be depended upon when debility is extreme purgatives should be employed with great caution yet it is advisable to keep the Bowels moderately open with Laxatives

Tremors and Subsultus Tendinum depending on extreme debility Musk has been highly recommended so has Camphor but no medicine has triumphed so completely over these symptoms as Opium

I have witnessed its beneficial effects in Typhus and should as soon think of curing Pneumonic inflamation without V.S. Purging &c as to cure Typhus without opium In exhibiting opium two circumstances should be kept in view first that its stimulus is of short duration hence the need of its of watching the patient continually and exhibiting the medicine frequently. secondly it sometimes acts too powerfully as a Diaphoretic which would often prove injurious were it not obviated Opium did much mischief in the Yellow fever of this city in 1793 it was attended with a pain in the region of the liver which was ~~diminished~~ always increased by opium-vomiting and nausea were removed by opium when there were no longer of increasing the pain in the liver in general Spirits and Opium more injurious in this fever Tho they sometimes proved effectual In the Inflamatory stage of Plague Opium is hurtful but after the inflamatory symptoms are removed it is certainly a beneficial Remedy

Intermittents The use of Opium here is by no means a modern improvement Galen asserted its efficacy It has been recommended an hour before the expected paroxysm and after the hot stage has come on Dr Lind says when given in the hot stage it shortens its duration relieves the pain in the head takes off the burning sensation of the skin produces sleep and the patient awakes in a profuse perspiration and entirely relieved Dr Lind thinks its use should precede the Bark I think it much safer if safe at all, in the hot stage to employ it warm climates such as Dr Lind employed it in than in this Climate for I have tried it in one case and it caused violent pain in the head and the patient remained comatose for 10 or 12 hours when Bark has failed in removing this disease 30 or 40 drops of Laudanum in a cup of strong Coffee has proved effectual. 50 Drops of Laudanum in a cup of strong coffee has no more effect then 30 taken alone Opium has been found highly useful in intermittents when combined with bark it prevents the Bark from going off by stroke and makes it sit more agreeably on the stomach Opium has generally been considered hurtful in all those diseases which face under the head of Pyrexia Gastrites is to be removed by V.S. Purging and the Antiphlogistic regimen The use of Dovers Powder in Acute Rheumatism shows that Stimuli may be given in diseases of considerable inflamatory action with the happiest effects Possibly they act by giving a healthy action or as Dr Darwin thinks

by increasing the absorption of the fluids As I have before advanced it has been observed by Dr Young as an invariable rule that opium should never be given in that inflamatory stage of the system which calls for VS – But I mention exceptions to this as in Nephritis &c I have relieved myself in this disease by alternating VS and opium It may be taken in considerable quantities without the least danger Also before VS in Jaundice where Gall stones are passing through the Ducts.

Phlegmasia In acute inflamation generally speaking all stimulants are to be avoided but in Chronic inflamation stimulants are to be used as in Chronic inflamation of the Larynx of the eye the sedative effects of Sacc Sat increases the disease while stimulants never fail to produce a cure.

In Pneumonic inflamation the Antiphlogistic plan should be followed and opium neglected since it generally does injury Some Physicians have recommended opium combined with Calomel in cases of Peripneumonia if given in such cases it should be with the utmost caution and always succeeded with the lances After the inflamatory action has been subdued opium seldom fail to remove the most of the remaining symptoms. Opium is always injurious in inflamatory diseases unless it produces sweat Hence Dovers Powder sometimes proves very injurious.

Peripneumonia Notha of old people Here opium is the most injurious medicine that can be used VS Purging &c should be freely employed In the Cough which succeeds this disease opium will be found most effectual

Catarrhal affections These affections generally depend more or less on a phlogistic Diathesis of the system VS Opium joined with some Diaphoretics as the preperations of Antimony Specacuanna should be advised. The affections are sometimes continued by irritation or habit if this is the case opium is the soveraign Remedy I think the following formula is superior to any I have used in Catarrh

℞. ℞ Paregoric ℥i Vin Antim gutt 150 or emetic Tartar gr ij Ext Glycyr ℥ij Aqua Fontana ℥viij M ft Give a table spoonful 2 3 or 4 times a day

The following is the Mucilaginous Tincture of the Edinburgh Pharmacopia

℞ Elix Asthmat ——— ℥i
Ext Glycyr —
Gum Arabica ——— ℥i
Vin Antim ——— gutt 80 or 100
Aq Fontana ——— viij or ℥x M ft

Dose a table spoonful every 1 or 2 hours if necessary

I object to the —

Subjects to the Paregoric recommended by the Edinburgh Dispensatory and Recommend the following - viz.

℞ Hard purified Opium
Flor Benzoin aa - - ℥i.
Gum Camph - - - - ℈ss
Boap Spt - - - - - - ℥ij
Mix & and digest as usual

The Flowers of Benzoin should never be omitted as they are the most valuable ingredient the Camphor is generally used in too great quantities and the oil of Anis is not only expensive but useless and often injurious.

Rheaumetism There are two species in this disease the Acute arising from the inflamatory state of the system & the Chronic depending on debility and laxity of the system In the former after sufficient evacuations by V.S. to reduce the inflamatory symptoms. opium in the form of Dovers Powder should be given in order to excite perspiration which should be kept up for 12 24 or 36 hours From the stimulus of this Endorific we should use it with great care if it does not excite perspiration it will prove injurious In this State of Rheumatism Dovers Powder proves by far the most certain and salutary endorific with which we are acquainted The following is the mode to prepare Dovers powder —

℞ Gum Opii
Pulo Ipecac aa ℥i
Vit Tartar — ℥i
M ft —

Dose 10 or 15 grains repeated every hour if necessary tho 12 or 15 grains is generally sufficient for 12 hours — The Vitriolated Tartar is only useful in assisting to break down the other materials I think it would be well to leave out the vit Tartar and substitute in its place Sacc Alb or Gum Arab The Vit Tart nauseates the stomach While using this powder the sweat should be rendered as universal as possible which may be done by wrapping the Patient up in Blankets and flannels the feet and legs should have more covering than the body the body may have its usual covering — The Best way of giving this medicine is in the form of a Bolus or in a roasted apple which will in a great measure prevent ogreamishness No drink should be taken for 45 minutes or an hour afterwards it will excite vomiting. Chicken Broth may be taken during the sweat and while the heat is not very great white wine whey may also be improper no person after passing through a sweat from this powder should be exposed to cold for 10 or 12 days & Hence the impropriety of those taking it who cannot take the necessary precautions. The Narcotic powers of opium are very much blended by its union with Ipecacuanna When a person has taken so much opium as to threaten life the best emetic we can give is Ipecac — for if all the opium is not thrown up the Ipecac will combine with it and lessen its deleterious effects.

In Acute Rheumetism attended with irritability local pain swelling and Redness

swelling and redness great debility and quick pulse Bark has been found useful also when combined with opium The following mixture may be given with advantage
℞ Tinct Hyo Vin Antim aa gutt xxx M Sig Gout—

Gout Dr Brown says that this disease always depends on indirect debility and is to be removed by opium and the stimulating medicines — This is a pleasing theory but — Also the Gout is often to be considered as an *Aprobrium Medicorum*"!!! There is a species of Gout call'd the Atonic irregular or retrocedent or more properly Gouts in the stomach When the Gout effects the stomach it gives rise to Nausea Vomiting and flatulency and sometimes a sensation of extreme cold is felt in the part Here all Physicians give opium and it should be exhibited with a liberal hand without fear & very frequently to relieve this distressing disease I have taken xx grains of opium three times a day & have taken so much as ℥vj of Ether for the same complaint in one day and once went so far as to take ℥iij of this last medicine in three hours the distressing symptoms were in both cases removed.

Sick Headach I think this disease is generaly the effect of Gout for I have seen it oftner in patients of a Gouty habit than in any others the best remedy for this disease is Tinct Hyo given in strong Coffee Suspect Hemicrania may generaly be attributed to Gout— ——

Variola or Small Pox since the time of Sydenham opium has been much employ in this disease in the inflamatory stage unless accompanied with convulsions it should never be used and even here I think Sinapisms of much more service the secondary fever is generaly of the inflamatory kind and requires the Antiphlogistic treatment but it sometimes degenerates into Typhus there opium may be used with advantage In the confluent small pox opium should seldom be given before the 6th day when combined with Bark Wine or Porter it has enabled us to triumph completely over this disease Diarrhea sometimes attends the onset Pap of opium will check it Morton considered a diarrhea as a sign of death Mead & Huxham viewed it as a salutary effort of nature and declared its removal should not be attempted.

Measels Sydenham recommended opium in this disease It is certainly an inflamatory disease and has a great tendency to end in Pneumonic affections the measle is much better understood and consequently much better treated in this than any other country The remedies are Ven S— Purgatives Cold air should not be advised but cool air is good

The Cough —

the cough which frequently attends this disease is removed by the mucilaginous mixture This Disease is frequently attended with Diarrhœa which should be carefully watched especially in summer some Authors think it should not be checked but in some cases opium should undoubtedly be given

Dysentery every Physician has used opium in this disease with evident advantage Dr Sydenham trusted the cure of this disease almost entirely to opium Dr Lind says that opium should be given in Dysentary of warm climates much sooner this has been generally recommended since in these climates the disease is much more Malignent and more rapid to death We derive but little from Cullen on this disease as he seems to be more guided by theory than by observation I have used opium in a majority of cases that fell under my care and it has seldom proved injurious I hardly think it managable without opium an objection has been made against its use from its astringent quality and tending to produce costiveness it may do harm when there is much fever by its stimulus But the fears of its astringency are only theoretical It is generally necesary to prescribe Cathartics in the first stage of the disease but this is not always the case for I have seen many Dysenteries in which opium should be given in the first stage a German Physician treated a case of dysentery with success by the combination of Antimony with opium this Epidemic Dysentary refused to yield to any other remedy —

Tetanus I can say little of the efficacy of opium in this disease from my own experience To a person labouring under this disease in the West Indies a Physician gave 3vi ~~with~~ of Tinct Theb without removing it but to a Negro man in this city 1-500 gr of solid opium were given in 17 days and cured him costiveness is frequently brought on by this medicine — but many facts prove that this is not uniformly the case

Tetanus is often an Ataxic disease this is more frequently the case when it is brought on by poisons as that of the Rattle snake Many respectable Physicians admit the efficacy of stimulants in this disease it appears that it is removed with more ease when this medicine is exhibited in large quantities than when given in small quantities and often wine Bark and opium have all been given with the happiest effects and either of them may be employed with equal advantage in Tetanus

Hydrophobia

the one

Hydrophobia This disease is seldom or never cured many circumstances tends to show that it is at first a febrile disease: as is further confirmed by attending to its causes it has been brought on by the bite of a Rattle snake Stramonium &c Opium Camphor and Musk have been given with the effects of so far restoring the patient as to enable him to drink largely of cold water they have also relieved the violent spasms that take place — There are many cases related which are said to have been cured by the Antiphlogistic plan of treatment

The Cluck weed has been highly recommended in the cure of Hydrophobia I believe it to be entirely inert and a useless plant and that it never cured a case of genuine Hydrophobia a case came under my care in which 400 grains had been given commencing immediately after the bite of the animal but with no advantage —

Chorea Sancti Viti or St. vitus's dance in this disease opium has sometimes used with advantage Sydenham attempted its cure by the alternate use of V.S. Purging & Opium with Bark Iron &c

Dr. Crumpt saw opium of use in one case though it did not effect a cure Bleeding has in some instances effected a cure

Epilepsy This disease arises from different causes or to speak more correctly depends on different constitutions of the system it is said sometimes to be the effect of excessive hemorage of the red blood producing debility this certainly is not the case if it were brought on mere state of debility why does it not occur much oftner in the last stage of Syphus and other fevers and in old age 2ly it often depends on a plethoric state of the system Many cures have been accomplished by the Antiphlogistic plan It is produced by a turgency of blood in the vessels of the Brain in this case opium would increase the disease it has been produced by irritation applied to the nervous system and here opium promises to be a valuable remedy and when given before the fit has often prevented its coming on In one case of Epilepsy from this cause I effected a cure from the use of Opium The Aura Epileptica is supposed to depend on irritation and Opium has often relieved it A case of Epilepsy brought on by a fright and returned every day at a certain hour it was cured by Opium Why do Epileptic fits occur oftner in the night than day probably

the one

they are brought on by a more free circulation of blood to the head in consequence of a horizontal Position of the body —

Palpitatio This sometimes depends on an organic affection of the heart Love of opium nor no other medicine would have any effect when it is Stomachic as is often the case for I have known it often attended with the Gout opium will remove it by removing spasms from the heart Love the necessity of enquiring into the diseases formerly of the person affected

Asthma In this disease opium sometimes proves efficacious at others injurious when it is caused by turgescency of blood in the vessels of the lungs this medicine should never be used but V.S. should be preceded with Purging vomiting &c but when the disease is purely spasmodic no remedy is so useful as opium I have seen two cases of asthma in this city in Gouty families that were removed by an affection of the toes and feet they were both females

Chincough Opium as well as Bark is often injurious in this disease and it frequently happens that V.S. is proper the first stage is generally attended with fever which sanctions the use of the lancet in the second stage the Anodynes or Pectorale mixture is good and useful remedy they must often continue a long time unless removed by opium or one of those mixtures

Pyrosis or Water Brash This disease is common in Europe and is said to be epidemic in some countries It is not common in mountainous countries in the Western part of Pennsylvania it is a common disease Linnaeus paid great attention to this disease and declared it may be cured by pork meats and sweet milks it sometimes continues through life Dr Cullin says it may be relieved by opium but the relief is temporary I think it is a symptom of violent paroxysm of Dispepsia in a very violent case of it I used opium with evident advantage I removed the disease with ol Succini I gave it in much larger doses than usual from 60 to 90 drops 2 or 3 times a day

Cholic If the pulse indicates febrile action V.S. Purging &c should be made use of the vomiting which occurs in Colic prevents Purges from acting as well as we could wish in hysterical Cholics and those termed Cold Cholics Opium has been highly recommended in removing the violent pain it has been of infinite service in the

Billiosis Cholica the it should never be given unless the superabundance of bile has been evacuated Opium is said to be useful in Cholica Pictonum.

Cholera every physician acknowledges the use of opium in this disease as it frequently rescues the patient from death there is no disease in which opium shows its good effects more than in this in the Cholera of old keep he it is almost the only remedy—

Hysteria This like epilepsy depends on different causes when it depends on plethora Opium should never be employed.

Mania This disease has sometimes been cured by opium Dr Cullen often thinks it mitigates the violence of the symptoms Mania sometimes depends on an organic affection of the Brain when this is the case opium cannot do any good in some cases it may be used with advantage it often produces death but by giving large quantities to effect this it often does much mischief Opium is certainly useful in that species of mania produced by Ardent Spirits it is the best of all remedies we are acquainted with

Ulcers Opium was found very useful in old ulcerous affections depending on relaxation in St Bartholomews Hospital —

Syphilis Accident discovered the use of opium in this disease sometime since in our country It should be combined with the different preparations of Mercury to prevent their Purging especially with calomel and the muriate of mercury it is of great service Opium of itself has never cured Syphilis when it has been said to cure it some of the mercurial preparations have been previously used some have supposed that opium acted by inducing as it were an Anti-syphilitic action and thereby prevent the virus from affecting the system.

Hæmoptoëis when this disease arises from cough opium has been of use by preventing the irritation But as this Hæmorage is of the active kind and accompanyed with great febrile action powerful Stimulii either applied externally or internally would do much mischief and in 99 cases out of the hundred V S should be employed —

Epistaxis This is a discharge of the most active kind and often occurs in the beginning of fevers when opium is given in a genuine Epistaxis it almost always does harm ——

Hemorages of Pregnent and Child Bearing woman depending on spasmodic affections of opium may be given with the happiest effects

Hamorrhoids or Piles This disease is generally of the active kind and attended with febrile action and an indiscriminate use of opium would be attended with the most disagreable consequences.

Cancer A woman of this city while laboring under a distreping cancer of the womb took ℥ij of opium and ℏij of Laudanum daily for a fortnight I had this fact from a Physician of undaunted veracity.

Hyosciamus Niger or Black Henbane this may be considered as a very valuable medicine of the Materia Medica it appears to be nearly allied to opium it is a powerful stimulent and occations a copious discharge of urine as I have observed in others and myself opium generally occations costiveness and Henbane as generally occations a laxity of the bowels In Animals destroyed by an over proportion of this medicine the vesles of the Brain were found to be effected in the same manner as they would of been from an over dose of opium — Henbane has been used in melancholia general debility &c — It may be used with as much safety as opium and may often be employed where opium cannot It caused sleep in a woman in a dose of 5 or 6 grains where opium would not In a case of Mania where opium did manifesting no this medicine in a dose of 5 or 4 grains repeated was of the greatest advantage The extract of Henbane has cured convulsions Galen used it in Mania Melancholia &c — It sometimes produces a great flow of sweat sound sleep copious stooles & much urine —

It is doubtful whether this medicine has cured any of the diseases above mentioned tho according to some it has cured melancholia salivation has been induced by it in two cases. In Puerperal Mania both Henbane and opium may be used with the best effect Dr Cullen observes that he found nothing more from Henbane than from good opium. It proves a good anodyne and when Opium cannot be used Henbane should be substituted in its place

Cordle This is one of the most painful symptoms attending Gonor
rhœa at first Bleeding and Purging are most proper then opium may be
used with safety and advantage and Henbane according to Bell has
proved serviseable after opium has failed The dose may be increased from
gr i to gr x in the day or more after being accustomed to use it 7 or 8 grains may be
taken three times a day It is not a native of this state but is found in New
York and Virginia Henbane grows to the ordinary hight of Tobacco and
is a most powerful poison and Stimulant. Its effects those who through
mistake have eaten of its Roots with Cholic pains Delerium heat about
the mouth and fauces Dilated pupils Double vision false preceptions &c

The deleterious properties of this vegatable are extreme & volatile In
my experiments on the vegetable I kept a portion in my Bed Chamber
in the night I was awakened with disagreable Dreams Head ach and
was soon effected with delerium Many other cases might be adduced in
proof of the volatility of the deleterious parts of this vegetable It is re
markable that the dose of this medicine may be increased to a greater quan
tity & in less time than that of opium it has been taken to the amount of
40 grains in the 24 hours.

Datura Stramonium or Thorn apple This is a common plant
about this City and is known by the name of James town weed The smell
of this plant is disagreable and poisenous the seed leaves and flowers
are poisenous when taken into the Stomach It is said to be poisenous to all
Cattle but Goats Browse on it with impunity Hogs are said to extract from it
Narcotic honey this medicine was formerly thought to act as a sedative
but we have decided proffer of its being a stimulant Mr Cooper has
lately proved it beyond all doubt in his ingenious dessertation Authors
inform us that some of the eastern nations substitute it for Opium
and Spts to exhilerate them I have often heard of the Indians using it
in this way It raises the spirits very much increases the pulse dilates
the pupil produces sweat and hemoragy.

Some Soldiers stationed at James town used it as a salad they all became
intoxicated delerious and even mad their delerium was of the pleasan
table kind causing the most childish and ridiculous gestures some
Jumping some Throwing up sticks and catching them as they returned
others darting straws &c They continued for this way for some time
but finally they all recovered. Lynden

Gruding used it in many cases of Mania but never made a complete cure he began with small doses and increased it gradually. The best preparation is made from the green plant by evaporating it in the sun Gruding used it in a number of cases of Epilepsy almost and in some that were combined with Mania but he succeeded in curing only one case Dr Archer used it in Epilepsy with advantage he gave the powdered seed at first in doses of 2 grains every 2 hours and then increased the quantity of each dose gradually I have seen great benefit from its use in Mania from retension of menses It is particularly useful in Mania with cold skin and no fever I begin with a few grains and increase gradually and always persist in the use of it unless it produces a dilitation of the pupil then I suspend its exhibition for a time until the pupil returns to its natural size again and then go on with the medicine.

I once increased the dose to five grains five times a day this medicine like opium is useful in some cases and hurtful in others I think it would be always well enough to try its effects when other medicines fail in Epilepsy & Mania

The seeds are chiefly to be depended upon unless the extract be carefully prepared our Infusion is made in the following manner Rx ℥ss of the seeds water ℥iv boiled down to ℥ij filter it and give for a dose a teaspoonful every half hour until sleep is produced

The Datura Stramonium is an annual plant and is one of those active medicines with which we have lately become acquainted we know more of it than Stork when he employed it as Cicuta in Mania Hydrophobia Epilepsy &c He says he used it always with seeming advantage but he acknowledged he never obtained a complete cure with it It has been used in Epilepsy in this country and with obvious advantage In regular periods of Epilepsy this medicine may be used with great benefit and at stated intervals but where the attack of this disease is irregular it should be given pretty constantly lest the proper time of exhibition should escape — A patient of mine took the first day 1 grain the third day he took one in the morning and two at night &c — until 10 grains were taken three times a day and after the long use of this medicine was discharged if not cured greatly relieved. I have known it used in Mania one case in the Penn Hospital with success A woman epileptic with Mania in the P H took at first 2 grains of this medicine 2 a day the quantity was gradually increased to 30 grains every night in a short time she was discharged perfectly well and 12 months after this I was informed she

she enjoyed —

she enjoyed perfect health and had never been troubled with a return of her disease It appears to be nearly allied to opium and we are told that in some cases it induces sleep when opium incite not It is said to have diuretic qualities and to be good in dropsy of its effects when externally applied I have no experience But a quantity of the leaves bruised and applied to the part has been highly recommended in inflamatory Gout! But Gentlemen I cannot too much impress on you the danger of administering applications &c It has been recommended in burnes but I am convinced from experience that it is an injurious and indeed a dangerous remedy - I to a patient of mine was applied a salve prepared from the Datura or Stramonium - as a dressing for a Blister the patient became insensible breathed with difficulty &c

Nicotiana Tobacum This was introduced into Europe from Virginia in Sixteen Hundred and ——

It is used as an injection in Strangulated Hernia ℥ss to a pint of water is as strong as it is safe to use it.

Atropha Belladonna or Deadly nightshade this has not been found in America Botanists have placed it in the Class with Hemlock &c Among the vegitable stimulants this is undoubtedly one of the most powerful Its power consists in the roots leaves and berries Its effects are Dryness in the mouth fauces nausea vertigo delerium &c I think it a more powerful Narcotic then opium A person drank some wine in which some of the Berries had laid in for a short time the consequence was delerium and death on examination the Body was found universally Gangranous. When any considerable quantity of this medicine is taken into the stomach an emetic should be given immediately It has been recommended in Dropsy succeeding Intermittents we are told that it has been used in Scirrhus The root has been used in Cancer and sometimes with advantage on account of its dilating the pupil of the eye it has been employed when the operation for Cataract was about to be performed

The Belladonna has been taken to the amount of 10 grains in 24 hours

Laurus Cerasus we should not compound this with the Kalmia Latifolia from which it is entirely distinct Dr Cullen says it is a Sedative

of the most powerful kind but I think its a stimulus as it tends to produce Tetenus and Tetenus 99 cases in the 100 is produced by stimulants But a further proff of this medicine being a stimulus is its tendency to produce convulsions the Laurus differs from other Narcotics by causing Death without sleep We are told that it is a deadly poison that it produces its effects more suddenly and powerfully then any other medicine or Substance.
It has seldom been used as a medicine which is perhaps a pity for we generally find the most powerful poisons to be the best medicines Dr Darwin relates a case of Hysteria cured by one leaf was made into tea and taken every morning Dr Brown mentions that the inhabitents in low marshy grounds near him cure themselves of intermittents with it in the form of tea its active qualities are very volatile and pass over in distilation the leaves in Europe are used by Confectioners for Custards and pies This city the confectioners use the bitter Almond the Indians frequently destroy themselves by the Laurus Cerasus The leaves of the Prunus virginiana is similar to the Laurus Cerasus ——

Kalmia Latifolia It is known in this state by the name of laurel in the New England states by the name of spoon wood in Virginia it is called Sow it has been long known to Poison Horses Sheep & Cattle Braddock lost a great number of horses in crossing Laurel Hill in the western part of this state it has been given in fevers by some of our country Physicians combined with.
It is perhaps the best remedy in Tenia capitis I have also employed it in ill conditioned ulcers in the form of an Ungent with success I killed a Rattle snake by 8 drops of the Tincture prepared from an extract of this plant by applying it externally. ——

Conium Maculatum or spotted Hemlock it is called Cicuta but very improperly It is a native of Europe and is found in every part of that quarter of the Globe it belongs to the order Umbelliferæ and may be distinguished from those plants that bear some resemblance to it by its spotted stem (like iron rust) and a dark shining green colour. Drs Cullen & Hunter place the Conium in their class of Sedatives Darwin in his Class Incitantia tho he entertains some doubts of it I do not hesitate to place it among the Stimulants as it produces Anxiety Cardialgia loss of Apetite Vomiting Convulsions Vertigo Coma Mania and Death The intestines of Animals ——

of animals killed by it have been found in a state of inflammation Dr Cops it salivated in 10 of 20 cases in which he used it I have known it to excite Ptyalism —

Of its use in Diseases. Dr Fulton used Hemlock in a very desperate case of Lepra the patient died but previous to his death a complete disquamation took place a decided proof of its operation on the skin all strong Narcotics seem to act powerfully on the skin The Elephantiasis is a species of Lepra and has been cured by Hemlock.

Syphilis Mr Hemlock has been advised by Hunter combined with Mercury Bell found it useful in Ulcers which followed Bubos and attended with fevers of the Hectic kind.

Cancer Dr Stork says he has cured genuine cancer with the extract of the leaves of Hemlock he gave from 10 to 20 grs a day Dr Aikens ide also mentions some cases that were cured by the extract in the London Hospital Many cases have been mentioned by different Physicians where it failed in the cure of confirmed cancer ——

A Bath has lately been used which is made by taking ℔ss of the seeds and putting them in a bag with four handfuls of the leaves and flowers to eight gallons of water Boil it down to six then add four more Dr Hamilton mentions a case of Cancer in the scrotum in which he used this bath with success The 1st Bath ing altered the discharge and 2 or 3 more made it healthy in a month by its constant use a cure was effected I have given Hemlock in many cases with great advantage to my Patients but never effected a cure I think it always ought to have a trial — — — — — — — — — — — — — —

Scrofula I have used Hemlock myself with the happiest effect in this disease Entirely cured one patient by giving 3 or 4 grains a day Dr Home says there are Ulcers of the legs in which it is preferable to any other medicine he has employed it to encircled Ankles in form of Poultices ——

Phthisis Pulmonalis Dr Pearson of England says that it mitigates the Hectic fever relieves the cough and disposes the ulcer to heal he used it in the form of vapour sometimes with the Sulphuric Ether He says that it is particularly useful in Scrofulous Phthisis from Scrophula I have never used it myself but from the testimony of such a character as Dr Reason I have some reason to believe that it has proved efficatious.

Stimulantia Subnarcotica

Camphor Dr Cullen places this in his class of sedatives but I think it considerably stimulant It is true its stimulating effects are not decided as some other medicines as the Datura Stramonium for instance Camphor is the product of several Shrubs and trees that which is employed in medicine is the product of the Laurus Camphora it is also obtained from the Sassafras Benzoin and Starwort It has lately been procured from the Prickly Ash in large quantities The oil of sassafras appears to be nearly allied to Camphor the Laurus Camphora grows in Sumatra and the Cape of Good Hope Camphor is frequently found in a concrete state in the fibres of the wood Water dissolves but a small quantity of it It gives the oil by distillation it has a bitter acrid taste in its common state but not in its natural state.

Dr Crawford says 10 grs of Camphor in its natural state when added to an ounce of Peruv Bark improves it very much in the cure of intermittents it is soluble in its own weight of Alkohol if water is added to the Alk solution it immediately precipitates the Camphor it is soluble in the Sulphuric & muriatic Acids Dr B. found that Camphor was readily miscible with water by adding a small quantity of Gum Mucilage to it before the water was added it is necessary to filter it afterwards There is a preperation much used in this city known by the name of Mistura Camphorata It is thus made ℞ Gum Camph ℥iij Gum Myrrha ℥ß Gum Arab ℥ß Aq Font ℥viij

This will effect the system when Camphor is given & its self will not and patients take it more readily than they do Camphor

We will now speak of its effects on Animals and 1st

On Insects It exerts considerable effect on insects at first they are very lively but soon die the same effect is wrought on Wasps and Scorpions when confined in a flask with Camphor but Moths are not destroyed by it Fleas are destroyed more readily in summer and when the north wind blows Does by taking 90 grs of it were rendered furious one had a complete Hydrophobia but recovered in a short time 3ij always occationed death producing always a constriction of the fauces Hydrophobia and Convulsions the Stomach Lungs and Brain were inflamed Caminate Injected a solution containing 3ij of Camphor into the rectum of a rabbit the effects were the same as when taken in the mouth the greater part of those he used the injection with died of convulsions. I have found injections containing Camphor good in destroying Ascarides It increases the heat of the Body of Animals this I think proves it to be a Stimulant yet Cullen says it is a Sedative. It frequently induces Stupor and such the active powers appear to reside in the volatile pa rt this is proved by the substance being found after the Camphor has produced its effects Yet I believe part of it is absorbed for it was discovered in the breast although Napkins were employed to keep the patient dry Monro found the taste and smell of it in the Stomach of a frog to whom he had applied it Similar experiments were made by Philip Alexander in his Inaugural Dissertation he says it was absorbed when applied to the surface of the Body but when applied internally it produced inflamation of the part to which it was immediately applied Dr Percival was the first to whom it destroyed the irritability Caminati made the same conclusion from his experiments.

of its effects on the humand body Dr Hoyle says a man swallowed 3ss. of Camphor it produced a sense of fullness in his head and large sense of the blood vessels of the face Dr Griffiths found that 3ij of it produced drunkenness reduced the pulse and deminished the heat one degree in Dr Alexander it produced Similar Revieus Vertigo &c at first his pulse sunk and afterwards rose very high perhaps he only attended to its 2 and 3 effects Calistor gave from 10 to 30 grains every 3 hours in bilious fever he says it deminished the heat of the body produced a fuller and slower Pulse

The Physicians of the 17th Century believed Camphor to be of a cooling nature but they were certainly mistaken Dr Quaile says large doses of Camphor produced a flushed face and general suffusion of the Countenance frequently delerium and sometimes Mania at the death from an over dose of Camphor the vessles of the Brain appeared as if they were swelled and inflamed Dr D'Allaure says that Camphor increases the fregueny of the pulse and causes flushed face

Of the use of Camphor in diseases

In Fevers Camphor has been used a long time indiscriminately in all kinds of Fevers but since Physicians has attained a more correct idea of the Modus Operandi it has only been used in those fevers attended with weak Morbid action or debility it has been frequently used with advantage in Syphus Mitior attended with delerium Subsultus Tendinum Coma See the experiments of Sir Jno Pringle shows that it pos's considerable Antiseptic power out of the Body which has led some to use it in what they called low putrid fever Pringle says he found Camphor useful in Gaol and Hospital fever and that it cured by its Antiseptic power here his practice and Theory run contrary to other for he expressly says that it ought not to be used in the first stages of this disease and that Purging and Antiphlogistic remedies must precede it he limits its use to the 2 and 3 stages in which it has been found of great advantage He first reduces the inflamm-

tory

the inflamatory action then gave the Camphor which acted as a stimulus if it acted as he supposed why should these depleting remedies precede its use If the disease was a putrid one from the beginning the sooner anticeptics were used the more speedy and certain the cure

Huxham when treating of the Putrid Petechial and Saile fevers says that Camphor is a valuable medicine composing the patient and inducing sleep as well as giving tone & strength to the system If given with opium it proves a diaphoretic

Gangranous Dr Cullin prescribes the Camphor in any Gangrane with great advantage he both applied it to the part affected and gave it internally He rubbed it down with Gum Arab then adding water making a solution of Camphor in water which he applied constantly to the mortified part add a dash of Alkohal to it of Camph makes it very fine Nitre will also produce the same effect it is not right to use the nitre in disease attended with great debility.

Small pox A Physician by the name of Rosenstein asserts that Camphor exerts a peculiar power in preventing the small pox He says he has frequently prevented by its effecting any part he wished He combined Camphor with pomatum with this he covered the face neck mouth eyes and Anteriors fauces so preventing the eruption of the Pustules on these parts if he employed the pomatum without the Camphor no such effect was produced this if found to be the case is a very important fact but I believe no person has repeated the experiment Camphor has been used in local and General inflamation & in diseases attended with and without inflamatory action

Portin says he gave the Camphor in Purpureal fever with success But I believe purpureal fever is always inflamatory and requires frequent and copious V S. I never lost a patient in this disease when I bled largely whereas I frequently lost patients in Purpureal fever when I adhered to the Old practice (S.E.) Give Bark Wine and Opium - We have found on dissecting patients who died in this disease that there were evident marks of inflamation in the Abdomen and Uterus Do not think that Camphor ever did good in this disease

Rheumatism

Rheumatism Of this there are two kinds the Acute and Chronic in the Acute Camphor has never done good except when the disease was changing to the Chronic Dr Cullin thinks it useful in some kinds of Rheumatism and also in Gout he mentions a case of Gout in which the oil of Camphor caused a translation of the disease from one foot to the other and then to the knee this shows us how extremly cautious we ought to be in using any application that could produce a translation of the disease especially unto a vital part such as the extremities &c

I was called to a negro man who was subject to the Rheumatism in his hip for which his mistress had ordered the part to be rubbed with Opodeldoc he did so and having a pain in his shoulder he rubbed that also after which he went to bed and was found no great while after to all appearance dead Tried several methods to bring him too but all to no purpose Heard another case where the patient died an hour after bathing the parts with Liniment He had a pain in his arm for which he rubbed it with Camph^{r} Linim and in a short time was relieved but his other arm was seized with a paralysis which he also rubbed with some of the same Liniment and the affection was again removed but in a short time the disease attacked his tongue (this was my Patient)

Lumbago A Physician who practised with great success a few years ago used Camphor in combination with Aether with this he cured lumbago and other painful affections of the joints of 7 years standing I have known Aether to throw Gout from the head to the feet in 30 minutes but if it be not Chronic in the head I would by no means use Aether for fear it would be driven to some more vital part & there occasion death Neither should we employ Camphor in this case for the same reason It appears to have a peculiar power in translating diseases ——

Epilepsy Locker a german Phy^{c} used Camphor in this disease in combination with Cuprum Ammon and Vitriol Ol Vitriol he says it cured a few patients.

Chora Sancti Vite Camphor has been found useful in this disease Dr Duncan mentions a case of a girl cured of this disease by Camphor only

Mania & Melencholia In the 75th Vol of the London Philos Trans there are four cases of Mania recorded that were cured by Camphor Mr Lote a surgeon in Edinburgh also cured a case of Mania by Camphor the Patient began to take the medicine in small doses and more and it to ℥i three times a day. I have given it in several cases without success and in one case I fear I did harm for the Patient died a short time after taking the Camphor

Several cases are related by Authors of Nymphomania (i.e.) Fluor Albus which were cured by copious Blood letting I cured a Mr Aiken with Camphor of Melencholy he took it in very large doses it produced a very copious Salivation which was kept up some time this is the only Patient I ever cured by it. Dr Wistar & Rhune informed me that they seldom found it of any use From Theory we should suppose it by no means suited to these cases where there is much Plethora or full Habit but think it would be best only in those cases where the patient is very much debilitated or of a spare Habit of body in the last case frequent blood letting should precede its use &c

Gonnorrha Camphor has been used in this disease its external use is recommended to the Penis I attended a Patient in consultation with Dr Shippen who has been labouring under an obstinate Gonnorrhe for a long time which yield'd to nothing the Dr had employed he was perfectly cured by an Injection made thus Rx Gum Camph ℥ss Gum Arab ℥i Aq Fontana ℥viij M ft

Cancerous Ulcers Opium has been used frequently in those kind of Ulcers and has often done harm but when combined with Camphor it proves useful Opium and Camph combined effects cures that neither would do alone By this combination we procure Subsultus Tendinum in the low state of fevers it produces refreshing sleep Dr Lazo says that Camphor combined with Bark cured intermittents sooner then Bark alone and that half the Bark is sufficient I have used this combination in cases of intermittents and think that ℥i of Bark with ℈ij of Camphor will cure intermittent sooner then ℥ij of Bark alone Camphor is said to render mercury more mild when combined with it Cullen says a mixture of Camphor with Mercurial Ointment has cured Syphiletic eruptions when mercury alone failed of success

Rx Gum Camph ℈ij Ung Mercur ℥i this combination salivates —

I have frequently employed Camphor in the Pennsylvania Hospital and always found it greatly to improve the Mercurial ointment I am firmly of opinion that it does not alter its salivating effects — Dr Rowe found this ointment to cure old ulcers which the mercurial ointment would not Cured a Gentleman of a Cancer on the scrotum after every other remedy had failed Hupham calls Camphor the green Hunter of Camphorides. Physicians formerly anointed Blisters with the oil of Camphor but it has little effect in prevating strangury the best preventative is Mucilaginous and Dilucent drinks.—

Of the dose and preperations of Camphor It is common to begin with 1 or 2 grains 3 times a day & increase to 6 grains a dose this repeated 3 or 4 times a day in the form of Pills or Bolusses it sets best on the stomach when dissolved or suspended in a liquid as in the Mistura Camphr or when mixed with a thick Mucilage of Gum Arab which is the form used by the Chinese of this City Dr Hupham used Camphor mixed with vinegar it being first triturated in the form of an Emulsion with the Ol Olivæ or Ammonds & in this way he said it produced Diuretic & Diaphoretic effects Another way of using it is Rx Gum Camphr ℈ss to ℈j Ol Cinnamon Gutt iij Tinct as the stomach will bear it Combined with Opium as already mentioned is much improved of its Anthelmintic qualities I shall treat of elsewhere ——

Musk. This is one of the few Animal substances used in practice It is obtained from an Animal called the Moschus Moschiferus of Linneus — It is a native only of Asia and is found in Thibet. China Jonkin. &c It generally assembles and continues in Herds on the top of Mountains from which they occationally but seldom descend into the valleys. The Musk is obtained from the male only and is contained in one oval receptacle or bag which is suspended from the Umbilicus as soon as the male is killed the bag is cut off and tied up to preserve the musk in its pure state The quantity of musk differs according to the age of the Animal.

The Taste of musk is bitter the smell when near is disagreable but at a distance very pleasant to some people it is so remarkably strong that it has been known to cause blood to gush from the nose eyes and ears when they were packing it for sale — Notwithstanding this medicine is procured in very large quantities it is often adulterated — Lead has been placed in the Bag to increase the weight of the medicine —

It communicates its odorous property to every thing near it

it is not only the most diffusible but retains its odour longer then any thing we are acquainted with It has a Radish Bracowish appearance and is nauseous to the touch the Analysis of Musk has not been so complete as we could wish as it contains a resinous Gellatinous oily and Saline matter Dr Cullin placed it among his Antispasmodic but I do not admit of such a Class I have no hesitation of saying it is a Stimulant In large doses it produces sweat refreshing sleep and a sense of heat about the stomach it brings on more placid and refreshing sleep then Opium.

Of its use in disease Gout Prinzee used this medicine in retrocedent Gout Dr Cullin used it in Gout of the stomach and thought that in large doses it removed it much more readily then any thing else I am very partial to it in having used it in retrocedent Gout which affects the head and stomach with more advantage then any thing else

Tetanus As Opium has been found of service in this disease we consider musk useful when combined with Opium it more readily removes the violent spasms of this disease then when employed alone In tetanus it should be given in very large doses which should be diminished as it goes off — A woman was seized with Emprosthotonos and after many remedies had been tried to no purpose Musk alone relieved her She had a slight return of it which was removed by Musk Soup which is made thus. ℞ 3 4 or 5 Grains of Musk Rg ℥ij ad ℔ij

Hydrophobia The analogy between Tetanus and this disease I have often hinted at they are often produced by the same causes — The Chinese make great use of Musk in this disease and esteem it a preventative their prescription is as follows ℞ Musk gr xv Natives and Sacchorus Cinclae aa ℥i Dose 1/3 of this at first increase it in a few doses to the whole mixture It produces a suspension of symptoms and refreshing sleep and takes of the dread of water I cannot deny the efficacy of musk in Hydrophobia Dr Hallen used it with success but we must recollect that he bled largely at first then gave the cold bath and lastly used the Musk

Cholica Pictonum It seldom fails to remove the most violent spasm when the medicine is genuine The best criterion to Judge of the strength of Musk is its Odour this is always proportioned to its fineness the more unctious it is to the touch the less pure It is frequently Adulterated by the American Apothecarys with Saltan When musk has fallen in

in curing a disease we must not determine against its use untill we have ascertained whether the mark was pure or not I believe it to be an excitive and pure stimulant in its pure state Dr Cullen gave it in doses from 10 to 30 grains

In Tremors convulsions Subsultus Tendinum and Singultus which sometimes attends the last stage of fevers the mark has been found of great use Mark has been obtained from the American Polecat—

Mr Pendegrast from Kentucky says that the Aligator of the Mississipi contains four sacks from which he believes ℥i of pure Musk might be obtained

Castor This substance has been supposed to be obtained from the inguinal Glands of an Animal which is an inhabitent of the old and new worlds but it is now well known to be contained in a small sack or bag near the Anus of an Animal called the Beaver the Castor of the Purest kind is brought from Russia in form of a Bolus & Possesses a great degree of firmness That which is soft is less Pure It possesses a strong odorous smell & Bitter taste — The Chemical properties of Castor is very similer to Musk containing a Resinous Feculentous and Saline matter its true character as a medicine has been very little understood Dr Cullen placed it among the Antispasmodics Castor has been highly spoken of in Nervous Diseases it has been given in all diseases in which musk has been employed.

The dose should be from 10 grains to ℥ß it is frequently used in form of Tincture as ℞ Castor ℥j Brandy ℔ß ℥j dose ℥ß 2 or 3 times a day water also extracts its virtues but does not form so valuable a medicine as when combined with spirits

Crocus The crocus sativus of Linn, known by the name of Saffron or it is used by the good women of the city in the eruptive stage of the small pox Measles and Scarlatina they say it helps to drive them out The Stigma or female part of the flowers is the only part of the plant employed in medicine The virtues of Saffron is extracted by water wine and spirits & vinegar It exhilerates the spirits proves gently anodyne & relieves pain It is a well known fact that it determines eruptions to the skin & increases the heat of the Body I have seldom used it.

Valeriana officinalis of Linnæus commonly called Valerian Sylvestris or wood valerian Root it is an incitent but not a very powerful one it produces profuse sweat and vomiting when given in large doses it occasions anxiety which effect is prevented by adding a little cinnamon. It is said to debilitate the stomach very much but some who have employed it in practice very much for many years declare they have never noticed this effect

Epilepsy The reputation of valerian in this disease appears to be established on a very extensive and respectable basis it was first brought into notice by Fabius Columna who by taking the powdered root in dose of half a drachm was cured of an inveterate Epilepsy after many other medicines had been tried in vain It has been said to be peculiarly fitted for the removal of Epilepsy depending on obstructed Menses — In 1708 Merchent used the root in Epilepsy to the Amount of ℥i to ℥ij 3 or 4 times a day by which means he cured three cases perfectly Dr Donald Monro says he never found it of any service in this disease I have used it in 3 cases 2 of which were little affected by it the third a son of Mr Thos Leeper of this city was perfectly cured he was 12 years old and had not long been affected by it he took ℈i twice a day (a large dose for his age) he discharged 100 round worms soon after which he was cured he had previously been salivated by Calomel and had taken several other medicines without gaining any relief — There is no doubt but this case depended on worms and I believe a majority cured by valerian depend on the same cause — A few drops of Laudanum effectually prevents its purging.

Chorea Sancti viti Hallen used valerian in this disease — It sometimes depends on the most unsuspected causes like Epilepsy it often originates from worms I cured a patient by combining valerian with Limatura Ferri Dr —— cured himself of Chorea by valerian ——

Hemicrania Caminati gave from 1 Gr to ℥ij of valerian at a dose 3 times a day in this disease. Headach of 4 years standing has been cured by it when the Headach is periodical the Peruvian Bark is the best remedy The following prescription too frequently cured it ℞ Cort Peruv ℥ß Valerian ℥ij Sal Ammon ℥ij Zingib ℈ß ft Pulv in a mass from 1 to 2 drachms may be given 3 or 4 times a day

Hemicrania often depends on Gout I was called to a woman in this city labouring under inflamatory pustle of the knee which being removed the patient was attacked immediately with the Gout in the stomach this by proper remedies was removed but in 3 days afterwards the most violent Hemicrania I ever saw in my life came on which certainly depended on Gout this person was a descendent of a gouty family which she denied on my first visit but confessed it after the attack of Gout in the stomach in this case the Gout appeared in 3 different effections viz:t on the knee in the stomach and the Head.

The valerian has been recommended in dimness of sight and effections of the eyes

Gutta Serena or Amaurosis Mr — has recorded many cases of the efficacy of valerian in this disease the dose was ℥ss it may be given in doses from ℥ss to ℥i 3-4-5 or 6 times a day this disease is often owing to effections of the stomach in using the valerian in this disease Mr Rieta often combined other articles with it these two lately were of some service but I believe the valerian was that from which the good effects resulted

In Putrid Fevers it has been recommended in this disease and is said to have been as efficacious as the Virginia Snake root I think it very near allied to the Serpentaria it will always be most efficacious when given in entertance experience has proved valerian to be a good antiseptic externally

Worms valerian is certainly a good and powerful Anthelmintic particularly for round worms some contend that it is also noxious to the Teniæ in a case in which I used it it proved purgative which proceeded from the largeness of the dose viz:t ℥ij a day there is a strong proof of its Anthelmintic properties vide Phillips

There are two Tinctures of valerian in use the one is considered as a good Stomachic while the other is employed as a gently heating and stimulating medicine most Physicians use it in entertance which is better than tincture.

Stimulating Fatid Gum Resins

Asafœtida

This is the product of a large Umbelliferous plant which grows in the mountains of Asia There is a species of it grows in this country the Ferula Canadensis which grows plentifully in this state it is the inspissated juice which is used it is first white but by exposure to air becomes brown it is very volatile and loses much of its virtues by keeping its odour is perhaps the best criterion to judge of its purity Hooper declares that ℥i of fresh Aspafœtidæ possess as much virtue as ℥ij of the same drug in the state we get it It is one of the Gum Resins but the gum abounds in the largest quantity its taste and smell resides in its resin it is by far the most valuable of the fœtid gums with which we are acquainted it is remarkably useful in the spasmodic affections that occur in Asthma & Hysteria It is an excellent expectorant in Asthma it is much better than the celebrated Gum Ammon it is said to obviate the Narcotic influence produced by the Aspafœtine action of Opium also the cause of Vomiting after the operation of Opium is prevented by Aspafœtida it seems to be endowed with something of an Anodyne property but this is in a small degree and manifests itself only in persons of delicate fibre and weak constitution it frequently proves Cathartic by which means it relieves persons affected with flatulent Colic

Its use in particular diseases

Intermittents

Bergius used Aspafœtida in this disease he found it more useful when combined with Bark Dr Boor have thought it the most powerful and useful Medicine in Nervous diseases in diseases which affected Children similar to Chorea Sacrealis Dr Miller found this medicine and Bark more useful than any other medicine he had used

Chorea Sacrealis Malignæ

The remedies in this disease are first vomits then expectorants should be given as a Syrup of Squills Aspafœtida When Bark is given in this disease the Aspafœtida may be given with great propriety

Asparagus has lately been highly recommended in Caries of the Bones from Syphilis & inflamatory symptoms are present in these affections we are told we should not use it if it produces any good effect it must be by promoting the exfoliation of the Carious bone A number of cases are related which seem to prove the fact but some experiments made in the Hospitals by Dr Shippen do not favour its having any such effect — When we wish it to act immediately the Lin cture should be advised A solution of the Gum in water with the addition of a little sugar forms a medicine the most unpleasant & disagreeable that can be made of Asparagus To this may be added 5 or more drops of mint to every 3ß of the mixture —

Gum Ammoniacum We are unacquainted with the botanical history of the plant from which this is obtained It is said to be a powerful expectorent but I think the bad effects which follow from its heating qualities more than counterballance the good which is produced from it as an expectorent It should therefore be cautiously used It has been recommended as a deobstruent and given in rickets obstructions and cases of Amenorrha but it does not appear to exert much power

Galbanum & Sagapenum would not fall under our notice but I consider them of so little virtue and power that I shall not treat of them

Class Alliacæ To this class belong the Onion the Leek and the Garlic all these are nearly allied to Asparagus and all very similar in their active constituent parts.

Allium Sativum or Lime or common Garlic has a strong odour in northern climates but in warm ones as the root and bulbs have the most activity drying and biting dissipates the volatile parts some people and particularly the French use it as a condiment with beef steak The external use of Garlic shows it to possess considerable activity when bruised and applied to the skin it first excites pain and irritation after sometime a Blister Rubifies from Garlic heal more readily than those from Mustard when taken as a condiment it promotes digestion yet it is liable to two objections first its odour is disagreeable to very many and 2dly it is thrown out by perspiration The stimulus of Garlic is very powerful this is found by its influence being rapidly extended over the whole Body raising the Pulse & increasing its force and frequency — Hence it should

Hence it should not be given in inflamatory fevers it promotes perspiration and proves Diuretic Since Dr. Sydenham used it in Dropsy Its stimulating effects prevades throughout the System When the circulation is languid it promotes secretions from the lungs & adjecent parts hence it is useful in Asthma When given just before the paroxism of an intermittent it prevents the accession of the fit To use it Authors recommend us to begin with a clove morning & evening and increase a clove every day untill the patient is cured.

Deafness is often cured or lessened by Garlic Duncan and Borgius speaks highly of it in affections of the Ears. The Juice of Garlic may be dropped on a piece of cotton and that introduced into the conch cotton but I prefer a clove wrapped in a piece of Gauze marked and introduced into the ear this generally gives speedy relief in my own person I have experienced its good effects in this disease It irritates and inflames the Meatus Auditorius

Deafness may be owing to a want of sensibility in the Auditory organs and the Garlic may act by either restoring the sensibility or by altering or increasing the secretions of the ear

The Garlic has been used as a Lythontriptic and some say with success. —

Allium Porum by Lastly used the heads of Leeks and says they are excellent Lythontriptics he thinks they posess some almost specific virtues they check Paroxisms and prevent their occurence they have been used introduced into the British Hospital The method of using them is to take a handful of the Beards and boil them in 3xij of water down to 3xij strain them Dose from 3ij to 3j in 4 hours I dont believe that Leeks dissolve the stone perhaps they prevent the formation of Calculi Dr Cullen thinks they prove deliquable only when they prove Diuretic but this is not the case or other Diuretics would act as well they seem to produce this effect by acting on the coats of the Bladder and perhaps by preventing the formation of acids It may be given in substance in the form of Pills &c the dose may be increased so as to take a whole 3ss 2 or 3 times a day

Siliquosa Nat Botanists and Med writers includes under this head many plants as the Radish Horse Radish Turnip & Mustard They contain a volatile Acrimony very like that of the Alliaceous plants and like them dispose to pass off by the Kidneys

1st of their internal use We shall speak principally of the Mustard and Horseradish the two most active and most employed in the Practice of Physic

Sinapisms Bergius employed mustard in combination with Peruvian Bark in the cure of intermittents he often cured them when vernal but never when Autumnal I should immitate this practice if I did not prefer the Virginia Snake root & Camphor Baron Van Sweeten says he new a person who had a large dose of it given to him in a fever it produced a number of disagreeable symptoms and terminated in convulsions and Death —

Chronic Rheumatism & Palsey These two diseases are nearly allied to each other when Rheumatism is unattended with inflamatory symptoms Mustard may be given with much advantage one table spoonful of the unbruised seeds may be taken twice a day in this form it will not prove heating to the stomach and will prove mildly Cathartic It increases the secretion of urine the bruised seeds are apt to vomit if they do not vomit they heat the whole system greatly it is useful in slight cases of Palsy I used it in the winter of 1814 in a Paralytic affection of the face with complete success.

Dropsy This disease has been treated by the mustard seed and found to be moderated May not Dropsy sometimes depend on Torpor of the Hepatic system and would not the mustard promote much here I hold it to be just and true that all diuretics may be useful in Dropsy —

Costiveness The unbruised seeds are an excellent Cathartic in Torpor of the Alimentary Canal The Mustard has an advantage over all other Cathartics (&c) not leaving the patient disposed to costiveness Dose two teaspoonfuls —

Vomiting A weak infusion of mustard is an excellent remedy in Asthmatic vomitings Ry Powdered Mustard seeds 1 tea spoonful Warm water Zivss Dose 1 teaspoonful every hour —

Of the external use of Mustard This is an important part of our practice and therefore deserves attention in applying mustard epicmally we combine the powdered seeds with Wheat Flour the latter is the best and strong vinegar forming a paste the proportion of Mustard and Meal should vary according to the exigencys of the case where we wish it to act quickly two parts of Pd Mustard to 10 of flour fresh made for table mustard is the last different from D Collin Mustard and other Oleiginose plants when applied to the skin produce inflamation pain after sometime Vesication which is sometimes succeeded by a copious discharge of Serum in producing these effects they act like Cantharides but generally they have not this effect Thier good effects are their action as generae Stimulants

Horse Radish is infinately more stimulating then Mustard and when speed is necessary they should be combined this simpisom has generally the advantage of the other it acts as well in Winter as Summer and will frequently produce its effects in 15 or 20 minutes —

These medicines operate beneficially by creating a new action in a superficial and less dangerous part then that principally effected

Convulsions from Dentition Simipisms in this complaint give great and almost instantaneous relief they are far superior to Laudanum in such cases and should not be dispensed with —

Convulsions during the Erruptive stage of fever are to be treated with simipisms I think I have seen them do more good in this stage of disease then any other remedy.

I do not know whether simipisms have been applied either to remove or prevent Intermittents Blisters have been used for this purpose It is probable that Simipisms would answer much better they should be applied just before the coming on of the cold fit in Strangury from the Gout attacking the Bladder Blisters to the Ankles have been found of great advantage this I have seen in my own practice

In Rebrocedent Gout Sinipisms applied to the Ankles have brought on the most alarming symptoms as Vertigo & Vomiting as translating the dis ease to the Head. they should therefore never be used when the Gout is in the extremeties when the disease is in the feet wrapping them up to keep them warm is absolutely necessary cold is very apt to determine it to some more vital part Perspiration should be excited in the feet for if they are kept warm without perspiration much danger will ensue the disease will be translated to some part more essential to life Sinipisms are very good in preventing the too violent operations of Emetics.

Vertigo I laboured under a vertigo for two years & think I was kept alive by the application of Sinipisms to my feet & Ankles —

Raphanus Rusticanus or Horse Radish the root is the part that is used both for Culinary and Medicinal purposes —
The medicinal effects of this root are to stimulate the solids & promote the secretions It seems to extend its action throughout the system and effect the minutest glands —
It is upon the whole a more valuable medicine than the Mustard and has been advised in the same diseases It may be given in combination with ardent Spirits or cut in small pieces and swallowed alone in this form it is said to prove beneficial in Arthritic affections.

In Chronic Rheumatism and Palsy It has been imployed in Wine & given with advantage It has been particularly advised in —
Dropsy The acrid matter of this plant is carried into the system of Blood vessels by acting on the kidneys prove Diuretic These are decided proofs that the Siliginose plants are carried into the circulation several of them impart an odour and taste to the flesh of Animals which feed upon them and they may evidently be perceived in their urine &c I have stones in my — and whenever I eat Horse Radish

I experience extreme irritation in them I have always effected with Hot or Urine.

I may here remark that Horseradish is much stronger than mustard exerting more powerful irritating effects & therefore requires more caution in its exhibition it is frequently added to Mustard in making Sinapisms.

I think that all Diuretics may be so managed as to prove useful in Dropsy of weak morbid action But I renounce the use of Horseradish in Dropsy attended with febrile symptoms as I renounce all medicines which exert stimulating effects on the System they may be given with great advantage when the disease depends on general debility or a torpor of the Hepatic viscera as is sometimes the case.

In Scurvy Both Mustard and Horseradish are found useful in this disease They act here in the same manner as they do in Dropsy &c. by their peculiar determination to the skin and kidneys the Horseradish is by far the best of all the Siliquose plants with which we are acquainted an infusion of this plant has been found of great service in scorbutic affections.

Coniferæ No 3 There are many species belonging to this Genus but only three or four will be mentioned.

Pinis Sylvestris or common Pine of this country Turpentine is obtained from this tree It is nearly the same if obtained from any of the different species.

The Venice Turpentine is the best and most used in Practice it is an acrid substance and when externally applied excites a great degree of inflamation

Some Authors recommend its use in foul wounds but I do not consider this practice advisable unless the continuance of the wound depends on great flaccidity of the part and does not take on the Adhesive or Suppurative inflamation

When Turpentine is used internally it should always be combined with some Bland substance as the White of Eggs &c to make it sit easy on the Stomach upon which it exerts the most decided effects.

It is an

It is an universal stimulant and generally operates upon the Urinary canal it may be so managed as to prove one of our best laxatives and as an injection it acts sooner than any other purgative with which we are acquainted. Take ℥ss Terpentine & Triturate it with the yolks of 2 or 3 eggs add a sufficient quantity of water and you have an excellent injection for Cholics or obstinate costiveness it scarcely ever fails to operate. Terpentine is carried into the Blood vessels showing itself in the urine and sometimes in the perspiration but we have some facts in favour of such an operation & probably on this depends its beneficial action in scrofulous affections

It unquestionably corrects the disagreable smell of urine contracted by eating Asparagus this fact was discovered by Dr Franklin who after eating plentifully of Asparagus eat a tea of Terpentine which exudes from a pine board near him he observed when he made water that no odour of the asparagus could be perceived in it. During the remainder of his life he was in the habit of taking a little Terpentine after eating asparagus to prevent this disagreable odour in his urine.

The presence of Terpentine in the system is discoverable from its exhalation from the lungs.

Terpentine is a powerful Diuretic from this circumstance it has been used by many both as a preventative and Solvent of Calculi of the Bladder It may sometimes prove serviceable. but in almost every case of Nephretic Calculi it would prove an extremely hurtful remedy.

Gleet This disease sometimes succeed Gonorrhœa it is always troublesome and frequently difficult to remove Terpentine has often cured it Dr Cullen says Terpentine or what is much the same Balsam Copaiva acts simply by exciting an inflamation in the urethra. That it sometimes proves Beneficial upon this principle is pretty evident but that it always does is doubtful since it has removed Gonorrhœa It probably acts as an Astringent Diuretic it may act it is undoubtedly an excellent remedy in old and obstinate Gleets I have known a most obstinate Gleet cured by a debauch of Port wine. Some have been in the habit of using powerful stimulants but I think them injurious I prefer the Balsam Copaiva to Terpentine in Gleets it may be given in wine or in any Mucilaginous mixture from 10 to 20 drops 2 or 3 times a day. The

the dose may be increased if necessary
It should not be given in recent Gonnorhea while inflamation exists for long continued Gleets & have used the Venice Turpentine made into pills & given in as large doses as the stomach would bear with success they must be continued a long time to effect a cure ——

Chlorosis I hope the Gentlemen will make enterlations for this term the

Febris Alba of Dr Sydenham It should be done in Roman to the Dr and through respect to the delicacy to the Sex.

Dr Cullin says he never or at least very seldom found the Venice Turpentine unpure in its crude state one reason for it says the Dr few females stomachs can bear the quantity of the medicine which might be necessary.

It is now proper to observe that most of the virtues and Stimulating properties of the Turpentine depend upon an Essential oil.

The Oleum Terebinthina This is obtained by distillation with water when this oil is externally applied it irritates and excites some degree of inflamation upon the skin it is therefore an useful rubefacient It has been used with success in Intermittents by being rubbed on the Body an hour before the Paroxism by this means they were prevented and more surely if mixed with Camphor.

A woman took large doses of it to remove a disease in the Kidneys it produced Strangury bloody Urine excruciating pain in the Back & loins Delerium and she ultimately died of universal Dropsy ——

Dr Home used it in Sciatica & Rheumatism His formula was as follows Rx Ol Tereb Zij Gum Zi Yolk Doz ℥ Zi morning & evening of seven Rheumatic Patients to whome he gave it five were cured and two relieved.

It is unpure in Hemorages but should be used with the utmost caution as it is apt to bring on costiveness. What is very surprising is that it is said to be very unpure in stopping active Hemorhagies.

Burgundy Pitch

Pix Burgundy This is an excellent application in deafness or a defect of hearing from debility of the organ it may be prevented from sticking to the ear by wrapping a piece of gauze round it It must act by restoring sensibility to the part by its stimulating qualities & is preferable to Pitch

Pix Liquida or **Tar** This is only burned Balsam of Turpentine it is partly decomposed and unites to some other part of the wood & has a more disagreable taste and smell than turpentine It is a good Pectoral medicine in Asthma & old coughs it has been used in these affections in the form of Pills with advantage mixed with oil and thread over the Body it has entirely cured the Lepra 5 parts of tar and 2 of wax form an useful ointment in many kinds of old Ulcers In Herpetic Eruptions the long Pills has been found of more efficacy than any other remedy About 50 years ago Tar water was very much in Vogue and was highly esteemed in almost every disease this being the case it was impossible that it should retain its character for any length of time It is still considered a good remedy in some cases. Bishop Berkley recommended it very highly in Phthisis Pulmonalis from its having cured him of this disease by taking to the amt of a pint a day in 2. 3 or 4 doses It acts as a gentle Laxative and proves Diuretic Dr Cullin employed it in Dyspepsia

Balsam Copaiba This is very similar to the Turpentine in its virtues it has been highly recommended in Ulcers of the Lungs but the observations concerning the use of Turpentine in these cases apply with equal correctness here (Vide Sothergill)

It must be evident that it is not adapted to diseases of inflamatory action

Gleet Here the Balsam Copaiba has been used with advantage it sits lighter on the stomach than Turpentine the dose is from 10 to 30 drops 2 or 3 times a day it may if necessary be given in much larger doses In old gleets unattended with inflamation & depending upon extreme debility generous living & exercise should be advised—

Gonorrhea In the West Indies Bal Cop is used both as an injection and internally at the same time for Gonorrhea the following is an excellent—

excellent Injection Rj Mucil 3ss Dulc grii Balsam Copaibæ gutta xi Gum Arab 3ij Aq Fontana 3viij M and inject one Syringe full into the Urethra every day

The Balsam should not be given internally in Gonorrhœa when inflammation exists —

Hæmorrhoids Dr Cullen employed the Balsam Copaibæ with success in this disease in doses of 30 or 40 drops with Pd sugar 1st or 2d a day I think the piles are often increased by stimulating remedies. —

Balsam of Peru This is the product of a tree described by the younger Linnæus & the name of Myroxylon Peruiferum

It has been said to be of efficacy in wounds of the nerves It is said to be of immense service when applied to the wounded part in Tetanus from wounds. perhaps it is of no more service than the Terpentine

Styrax officinale of Linn, is what is called by the vulgar Sweet Gum This is obtained from a tree growing in the Island of Cuba in the Red Sea I may add from my own knowledge in every part of the U States

It is a green resin and has been used in a number of cases or diseases Some have ascribed to it very wonderful effects in curing Phthisis Pulmonalis I dont believe this though it is an article which promises much but it has been very little attended to or employed by Physicians Dr B— has used it with great advantage in cure of Diarrhœa One part of Styrax with two of Ung Baric nigrum is a valuable remedy in Paralytic affections & debility of the limbs from Rickets In all probability if this gum was treated and experimented on would prove a valuable acquisition to the M Medica —

Gum Guaiacum This is procured from the officinal Guaiacum of Linn the Lignum Vitæ of the English it is a native of South America and probably vegitates as far as Georgia to the north It is a true Gum Resin and has long since been employed in Syphilis and still continues to be employed in Italy and England

Mr Bell speaks very favourably of it in removing Venereal blotches from the skin he relates several cases that were cured by this medicine but he acknowledges that its beneficial effects were only temporary and that the disease was very apt to return —

It certainly ont hands some of the most dangerous ozmptions of this disease It is thought to be most serviceable after Mercury has failed But we find it incompatible to the cure of this formidable disease It has been contended by some that the venereal disease was carried into Europe from America and that the use of Guaiacum in it was learned from the Indians who considered it as a specific but this fact is extremely doubtful it is well known that numbers of Indians died with Syphilis though they used this medicine

In Gout The Guaiacum has obtained much celebrety in the West Ind ies as a cure for this disease the following is the form in which it has been recommended Rx Lo Viij of Rum we are told to the Spts will answer add Zij of the Pv Guaiacum these are to be well corked in a bottle which must remain in the sun for 2 or 3 days being frequently shaked then strain for use and put it in a tight bottle Dose a table spoonful every morning fasting this must be continued for one year or longer

Dr Dorsey in a publication on Acute Rheumatism & Gout labours very hard to prove the wonderful effects of Guaiacum but he has not sufficiently distinguished between the two diseases in which he has so highly extolled this medicine He used the pul Guiac in longer doses then ever it was or has been since his time very few ever gave more then Zj at a dose but he frequently gave 4 times that quantity I think the Dr ascribed too much to this medicine as Gout is a much Milder disease in Warm then in more Northern climates which may be the reason Why the Dr was more successful in the West Indies with the Guaiacum than the Physicians are in dif ferent parts of the United States. Notwithstanding we should not consider this medicine inert as it has been serviceable in many cases A person of Palsy 2 years after he had taking this medicine (at Edinburgh) from which circumstance Dr Gregory very irrationally renounced the use of it in every case of the Gout afterwards Dr Cullen does not speak very favorably of it Gum Guaiacum has lately been said to cure Epilepsy in the W Indies but we must remember this disease is less violent there and is more frequently cured by removing from a cold to a warm climate than by any thing else except low diet

Myrrhia: Myrrh This is a Gum Resin brought from the east Indies in globes or Drops of various colours and magnitude the natural history of Myrrhe is unknown the best kind is of a Brown reddish yellow colour somewhat transparent when taken into the stomach it proves Aromatic causing considerable heat in the viscera & expelling wind it strengthens the viscera & frequently occations a mild diaphoresis but if taken in too large doses it proves a powerful stimulant increasing the action of the whole system which is manifested by a quickness of the pulse and a great increase of the different secretions

Its pectoral qualities have been much extolled in Britain it is a very fashionable remedy it has been used in Guys Hospital in London in the suppurative stage of Phthisis but we do not think it adapted to that disease in this country where great debility exists and then its operation is as an incitent

In Slow Hectic Fevers & Hysteric effections Myrrha has been used by Dr Mc Greggor his form was as follows R from 10 to 30 grains of Myrrh Sac Tartar ℈i Sac Martis ℈ß Mix them well together and give the patient as much as his stomach will bear the Myrrh is very Balsamic & and more acrid then any of the Balms. It has long since been used in cleaning old Ulcers Dr Cullen says Myrrh has been used in Amenorrhea, but he does not think much of its use as an emenagogue for my part I have not had much experience with it but I should think it useful in affections of the Uterus Dr Spedman employed it in his Febris Alba which I take to be the same disease with the Chlorosis of our time Myrrh is used in powder Mixture & Tincture water extracts its virtues better than spirits which is the case with most of the Gum Resins.

Indian Turnip Vide my Publications

Mezereon Daphne mezereum of Linne) This though not a native of our country flourishes near this city It has been extensively used in Lisbon for the cure of Syphilis exhibited in decoction

or

Here is a preparation commonly called the Lisbon Diet drink which is the one generally used Ry Rad Salsa parilla ℥iij Guaiacum ℥i Rad Glycyrrh ℥i Mazereon ℥iij Aq Font ℔ij let them remain 3 days on a sand bath at 100 of Farenht. then strain it and let the patient take as much as he can bear and repeat it as often as he can without ex erting any disagreable effects This is one way in which it has been used but I believe the following to be the best formula Ry of the root of Sarsaparilla sliced and Bruised ℥vi Rasp ings of Guaiacum ℥ss gin ous Root Bruised aa ℥i Bark of Mazereon root ℥iij distilled wate ℔ij macerate with a gentle heat for 6 hours then boil it down to 8 ℔ij adding towards the conclusion the Bark of Mazereon root & Strain the Liquid This is the formula published by Doctor Donald Monro in the Physical & Literary essays of Edinburgh The following has been used by some and particularly by Dr Monro Ry Sasaparilla Rad ℥ij ite Sanders aa ℥iij Mazereon ℥ij Valerian ℥i Water ℔ij Digest for several days I do not think the diet drink has cured Syphilis of itself without a combination of Mercury Dr Home found it of service in removing ~~venereal nodes~~ Schirrous tumors after the venereal disease and also glandular swellings from some other causes It has frequently cured old Ulcers after Mercury alone had failed It is not com mon to see ulcers increase under the use of Mercury when we should have recourse to Tonics as Bark Wine Porter & Mazereon

In Hernia Humoralis the Mazereon in combination with Mercury has been employed with great advantage but I would by no means use it in every stage of this disease but would defer the use of it untill the inflamatory symptoms were reduced by the Antiphlogistic treatment after which the Morbid enlargement of the Testes & Epi didymus attended with hardness may in a great measure be removed by the use of Mazereon

Dr Gregory used to recommend his patients who were afflicted with a paralysis of the fauces to chew Mazereon for a considerable length of time which uniformly relieved and very frequently cured them

I come now to speak of the external use of the Bark of the root of the Mazereon This Bark contains an extreme ly acrid matter which when applied to the skin produces Itching Burning pain and readily exci tes a Blister with a considerable discharge of Serum. and by repeated & frequent applications it has often been employed in France & an

as an Issue perpetuel. which purpose it answers in every respect with out producing any erosion. as an ointment at first be supposed in this respect and also in its immediate action it is preferable to Cantharides and I would recommend it in preference to the Cauthard. in urgent cases & especially when an application of this kind is to be made to the head.

In Opthalmia This Bord applied behind the ears and continued for a considerable time produces the happiest effects frequently relieves the patient entirely some recommend Blisters or Issues in Opthalmia to be applied to the Arms or Deltoid Muscle or on the inside of the Legs — from my own experience I cannot say which is to be preferd
This Bark has also been applied to produce Diaphoresis and is said with complete success It is certainly better than the Spanish flies and produces a better Blister

Succinum or Amber This is a solid brittle Inflammable substance Dug out of the earth or found upon the Sea shore The largest quantities are met with along the shores of Poland & Prussia it is of a white yellow or Brown colour sometimes opake and at others clear and transparent Amber has little taste or smell unless it is rubbed Water does not extract any part of it but rectified Spt of Wine affords a good Tincture of a Bitter or Aromatic taste. Chemists are divided concerning the natural history of Amber some affirming it to be a Mineral others a vegetable and others of Animal origin I think it is generally thought to be of a mineral origin we seldom use Amber as a medicine in its crude state but generally employ the Oil obtained by distillation the first part which come over into the Receiver is thin the other much thicker the pure part is called Ol Succini it is of a hot pungent taste and Aromatic flavour it is not soluble in the Spt of Wine it is given internally in doses from 10 to 12 drops as an Antihysteric also Swellings Paralysis & Pyrosis Incited an obstinate Pyrosis by beginning with 5 drops and increasing it to 30 — 3 or 4 times a day It has been celebrated for its action on the Muscular system but I do not know how it has obtained the credit it has of acting on the Muscular without affecting the

the Arterial action I think it decidedly a stimulant the following
experiment proves the fact at 8 Oclock after breakfasting in the
morning Took 37 drops of the Rect Ol of Anise my pulse beating
72 its natural standard in 10 minutes it was 74 in 15 = 76 in 20 76
in 30 - 78 full and strong I had at this time a pain in my head and gene-
ral languor in 5 minutes it was at 80 Languor and pain increased in
80 min 79 & not so full in 80 minutes 77. in 100 - 74 in 120 my pulse
beat 70 the pain in my head quiet a little & perfect remission
I have had but little experience in the use of Anise seed one case of
Water Bark with Ol Anise after many remedies had been employed
in vain in this case it caused a flushing of the face and increased the heat
of the body

Stimulantia Evacuantia or evacuent stimulants — The first class under
this head are —

Errines These sometimes promote a discharge of Mucous at others a
thin discharge from the nose they invere the secretion of the Schnide-
rian membrane These medicines are sometimes called Sternutatory
which I think is Synonimous with errhine I shall use it as Synonim-
ous they sometimes excite sneezing at others do not this says Dr Cullin
does not imply a difference of action but a different degree of the same
action their action goes no further sometimes than to produce the na-
sal Liathy discharge but at others times it is excessive & continues
for some time their action is entirely topical when taken into the
stomach this sometimes excite sneezing though not always the
wild bees of our country form a honey of a deleterious nature
which if taken into the stomach produces sickness of that organ
vomiting Stupor vertigo and even death it acts as a sternutatory
this honey must be extracted from Errhines and must be carried in
to the circulation since sneezing does not come on until 2 or 3
hours after it is taken into the stomach. —

Of the use of Errhines in Diseases

Hydrocephalus Internus Dr Darwin speaks of errhines in this disease
be generally employed V S — according to circumstances previous to
the use of errhines I have no experience as to their utility in this

disease neither do I think I should use them as they do not appear adapted to the disease but in those cases that have resisted every other means it would be right to try them

Deafness It would be a difficult task to point out all the different species of this disease It certainly depends on a variety of causes It sometimes depends on cold and is different in several respects from deafness depending on other causes It is known by sounds in the ears which has been compared to many sounds which occur in nature Blisters cupping V Sectio and Purging have all in their turns removed this disease but Mr Sims informs us that all other remedies are inferior to errhines in this disease

Dr-odontalgia or Toothach The errhines have been recommended as useful

Dr ophthalmias It has also been recommended

Gutta Serena The errhines have been highly recommended in this disease a Sternutatory powder formed of gr x of Turbeth Mineral & ʒvj of Tobacco a little of this taken up the nose occationally I myself have known this powder to effect a cure in two cases of this direful disease But if the disease depends on an Organic affection the powder does no good When depending on venereal affection it may be removed by Mercury —

Of Particular Errhines and first of the Common Beet or

Beta Vulgaris of Linn The juice or Powder of the root was frequently used by Galen as an errhine and from his time it has had a place in the M Medica But I do not think much of it as a Sternatatory and Dr Cullen says in all the trials he gave it he never found it to produce any large or durable evacuation

Asarum Asarabacca (asarum Europeum of Linn) It is known by the name of Colts foot & by that of Wild Ginger in the country It is a strong and very useful errhine A few grains snuffed up the nose and repeated every morning and evening produces a copious flow of fluids — It is the

It is the Basis of the Pulvis Sternutatorius and enters into the composition of all the Cephalic snuffs it proves of great use in Tooth ach and opthalmia Dr Cullen says three grains of the Asarum is the proper dose —

Sanguna Canadensis Shown by Dr Darwin to be the test of Stimulants:

Nicotiana or Tobacco Nicotianum Tabacum of Linneus This as it commonly prepared for persons who amuse themselves with one sniffing I find may be conveniently employed as an Arcana by those who are unaccustomed with it but like all others by repetition its powers lessen tho its strength is the same the same capacity does not exist in the patient to be acted upon as at first. — Dr C— says that in moderate doses it is never violent to any & repeated once or twice a day it may cause and continue a discharge for some time like the Asarum & snuff has been used for any considerable time the sudden disuse of it is dangerous and if the patient is of a gouty habit or very plethoric a disease of the Head will in all probability occur It is entirely a narcotic in what ever way it is used but habit in a great measure deprives it of its deleterious effects and renders it inactive yet we see some who are great snuffers subject to tremors paralysis &c Dr Cullen informs us that snuffing to excess produced Dyspepsia & in a case where we have known it to produce pain in the Head and Stomach which decured daily at the same period when the use of snuff was laid aside the pains ceased & vice versa We are told that the daily use of snuff is the reason why nervous diseases have become more common than formerly the same author (Lorin) says that Maniacks become very fond of snuff altho they were not previous to their disease They will eat it in considerable quantities (but I have observed continues our author) that in a majority of cases it was hurtful to them —

I have witnessed this peculiar desire myself in the Maniacks of our Hospital but I cannot say whether it was hurtful or not as they were prohibited the use of it In one thing I must contradict Dr Lorin as far as respects the U States — He asserts that Nervous diseases are more common now than formerly this I do not believe Nay I am certain that they are less in this City if any thing than they were 40 years ago It has been said that there are many diseases known to us that were never seen by the

by the antients and that we have a very imperfect knowledge of the diseases described by them But in this there is some error Syphilis & Ralis Caneum are mentioned as bad diseases ~~of~~ with which we are acquainted and the Antients were not but Hypocrates knew and described the last and David appears to have been afflicted with the first when he exclaimed "My Sons are putrified and corrupted because of my foolishness for my loins are filled with a lothesome disease and there is no soundness in my flesh And it is very probable that Job had the Syphilis when he exclaimed My bones are full of the sins of my youth which shall be down with me in the dust. It does not appear that Tobacco is necessarily destructive to Health since Sinclair has shown many instances of Longevity in persons who used it a greater part of their lives yet the habit of using it is certainly a vicious one Tobacco and Indian Turnip form an excellent snuff to be taken in Gutta Serena

Digitalis or Fox Glove We have found the powdered leaves of this plant to be possessed of Divine qualities or Properties —

Euphorbium officinalis (Linn) This is a Gum Resin obtained by spontaneous exudation from an Oriental tree It is brought to us in drops of an irregular form and of a pale yellow colour externally but somewhat white within they easily break between the fingers It is possessed of a sharp biting taste & being held sometime in the mouth it proves very Acrimonious & inflames the fauces &c it is a very acrid and powerful errhine and if not used with great caution it inflames the Schneiderian membrane and sometimes extends down the neck & throat and attacks the Carotid Arteries so acrid is this Gum that it is with great dificulty we can persuade the Apothecaries to pulverize it Dr C— says he has seen it do much harm but never new it do much good It is said by some to have cured the Cataract externally applied. —

Helleborus Alba This is said to possess powerful errhine properties and to have removed obstructions of the head I have never employed it —

Sneeze Weed This is a very powerful errhine and produces almost continual sneezings for sometime To me it is a much stronger Sternutatory than the strongest Tobacco snuff —

Selection

Solution of White vitriol is possessed of an ethine quality to a considerable degree. I might here mention another case where I have by the use of Such this mineral & Tobacco combined and used as snuff removed the Gutta Serena from an Elderly Lady —

Sialogogues. —

These are such medicines as excite and increase the secretion of the Salivary Glands and produce a greater flow of saliva Sialogogues are of two kinds external & internal The first are termed Masticatories these are certain acrid matters which when taken into the mouth produce a copious flow of saliva from the action on the adjacent glands —

Anthemis Pirethrum or Pillitory of Spain This root when chewed excites a copious flow of saliva and has been used with advantage in Odontalgia when the Root is finely powdered it proves Sternatatory

Master Wort The root of this is also possessed of Sialagogue powers but in a less degree a discharge of saliva is produced by chewing the root —

Zanthoxillum or Tooth ache Shrub This is a very powerful sialogogue both externally and internally employed when taken internally it has been known to keep up a salivation for several days in this respect it bears a similarity to mercury it has been prized as a cure in Odontalgia it has also been used in the cure of Syphilis It has lately excited much attention in London —

Seneka Polygala of Linn or Seneka snake root This is an excellent Masticatory I think it the best external sialagogue with which we are acquainted — after —

after chewing the root a few minutes it excites heat and a copious flow of Saliva It has been used in Odontalgia from Rheumatism of topical pains of the part where the affection was not generally ~~affected~~ In topical pains of the head from Chronic Rheumatism or any other cause Topical and general bleeding must be used Blisters to the back and Stimulants internally and externally would be of great assistance in the removal and cure of such affections

Raphanus Rusticanus This has already been treated of under the Head of incitants & I think it deserves one attention as a Sialigogue it is certainly an excellent external one and has been used with advantage in Odontalgia

Of Internal Sialigogues and first of Mercury I shall first speak of mercury in different diseases and then of its Modus Operandi

Of the use of Mercury in Fevers In the 15th Century Sir Theodore Mayern used Mercury so as to induce salivation in Intermittent fevers In 1701 Bombery used Calomel to salivate in Quartan Intermittents & Dropsies In 1771 It was highly recommended in the cure of intermittents But I do not think it deserving of very great praise in febrile affections since the Bark especially in intermittents is so far preferable to it Dr Chisholm has some ample testimony in favour of its use in the Bilious Malignant fever of the West Indies which he supposes to have been imported from Siam & Borneo This is similer to our Yellow fever His indications of cure were first to discharge from the Stomach and intestines acrid Humors 2ly to obviate inflamatory diathesis 3ly to obviate putrefency as he supposed & lastly to avoid debility give tone to the Stomach and thus restore health

To accomplish the first he gave Sart Emet gr ij Sal Gt ℥iij Water ℥ij of this he gave a wine glass full every two hours he says he seldom found Bleeding useful The Dr also says he was obliged to employ large quantities of mercury in many cases to induce Ptyalism and that some had upwards of 400 gr before that effect was produced For a more Particular account of the Drs Practice I refer you to his Works

But I cannot agree with Dr Chisholm in treating this formidable disease to mercury yet I am by no means disposed to neglect it

it entirely as I can speak from experience it is the most suitable cathartic in this disease & I attribute to him that I never lost a patient in Yellow fever when by the use of mercury I coned to duce a Salivation I have seen 2 cases both attended with little febrile action in which salivation could not be brought on altho in one of them 900 grains of mercury were exhibited Again I think I may say that mercury is the most certain and preparatory for the exhibition of Bark which is the most effectual febrile Specific In the Yellow fever of this city mercury was of great ser vice out of hundreds that were salivated not more than 8 or 9 died Sali vation sometimes ceases spontaniously I have found heat the most cer tain means of bringing it on again It appears to act by producing a new action and destroying the old one

It is a very safe general rule that children under 2 years of age cannot be salivated it is evident that children affected with Yellow fever cannot receive the same advantage as adults from mercury

But Dr. Percival says he has found it useful when it did not salivate in Children it produces a great secretion from the more In some instances a salivation may be produced in adults in 24 hours by rub bing mercurial Ointment in the Palms of the hands and along the Arms from which I suppose it to be most readily absorbed

In Syphilis forms of fever I can say nothing of its good effects

Dysentery In 1781 this disease raged in the Dock yards in England at Newcastle & it rapidly spread through the neighbourhood of the yards several died in a few hours under the usual treatment. Dr. Black visited them and not finding the common remedies to answer he pres cribed Sulphate of Soda ℥i & Calomel 5 grains he found most of his patients thereby - (It was repeated every 2 hours)

He did not know whether it acted as a Cathartic or mercurial But the following year it appeared again he found the same medicines to answer and observed that no soon as the Gums became sore the patient recovered He found that mercury and those persons whose stomachs were so irritable they could not retain the acids

in consequence

in consequence of this the 99 balls were left out & generally required 30 or 40 grains to produce a Ptyalism (of Calomel) And some took ℥i in the acute stage before they became affected with a sore mouth If the saline purges operated well it was found not generally necessary to salivate the patient In these cases he gave a powder compound of Ipecacuanna ℈ij Opium ℈i Creta ℔ss or Calomel ℈x one was given every morning & evening

I have employed mercury in this disease with evident advantage but since I have introduced Ipecac in the beg Practice in Dysentary I have in a great measure laid mercury aside.

Mercury is not good in Dysentery attended with Scorbutic I look it as a maxim where patients take mercury without its producing any good effects either purgative or sialigogue it is doing or will do harm I know of two persons who died of Hemorage from the intestines and of another who had an exfoliation of the alveolar process of the upper Jaw which terminated in death in these patients mercury neither Purged or salivated altho they took large quantities I would therefore advise when it fails of effect after the use of it 2 or 3 days to desist from the further use of it as in every case where I have prescribed it it produced its effects in a very short time.

Diarrhea Mercury has been very highly recommended in this disease and I think it does not demand much nicety in its exhibition here —

Cynanche Maligna In 1774 Dr Saml Bache used calomel and Opium in this disease to which he added a gargle of Corosive sublimate Dr Douglas of Boston used mercury in Cynache Maligna with great advantage — He gave it with a view of salivating

Cynache Trachealis
100

Cynache Trachealis Of this there are two species the symptomatic and Idiopathic the first is a very violent disease destroying the patient very suddenly I think its violence greater and its tendency to death almost as certain as the Hydrocaphelus internus the Idiopathic is a milder disease & yields soonest to medical aid the Hyd & Calomel in combination with Specacuanna but the progress of the disease has been so rapid under this medicine that it should not be relied upon as the disease sometimes kills in 6 hours after its attack

Pneumonic Inflamation We seldom use mercury in this disease as there is little necessity for it but there is a species of Pneumonia which occurs in the neighborhood of low & marshy grounds it is described by Dr Hamilton something like a Bilious fever in which mercury was largely used

Hepatitis This is a disease which occurs in all hot climates and particularly in the East & West Indies and among us I think it more common than formerly It is an inflamatory disease particularly in its first stage and should be treated with V.S. Purging Blistering &c after which mercury is the best and perhaps the most certain remedy for compleating the cure. I think Calomel too much is ascribed to mercury for Bluding more frequently succeeds in my hands We are advised to be very cautious in the exhibition of mercury in Hepatitis and only suffer the mouth to be slightly touched as profuse salivation is injurious we sometimes find 2 or more salivations necessary to the cure of this disease as I have lately experienced in two cases The action of Mercury is found to be more certain then in any other & we frequently find it necessary to bleed while exhibiting the mercury The use of mercury in this disease I believe is established all over the

D

Goitre From the daily use of mercury this disease appears to be under its power and we have seen 2 or 3 cases in which ours were effected by Salivation from mercury

Rheumatism The use of mercury in this disease is pretty well established But I do not believe that true Rheumatism has ever been cured by the use of mercury alone where it is blended with dyspeptic affections we have no doubt but mercury has been used with success and that it is the best remedy with which we are acquainted I have seen two cases where Rheumatism was attended with a fixed and yellow tongue when ever the running appeared the Rheumatic affection ceased and V. Versa In all such cases mercury should certainly be employed Strong practice in true Rheumatism I have always used Dovers Powder with other medicines. Monro is the first who employed mercury in Rheumatism with a view to salivate many have advised small doses of calomel to be given at night till salivation appears

Gout We are told that mercury has been employed in this disease with advantage Dr Hamilton tried it or himself combined with opium and found it of service I have used it in gout combined with Spirit Juniperi and I think with advantage but my experience in this is not much

Hypochondriasis We have been informed that the mercurial pills have been found very useful in this disease

Cholica Pictonum This disease is brought on by lead which seems to act by destroying the tone of the muscular fibre the cold bath or Buckets of cold water dashed on the patient have cured this disease It diminishes the secretion of fluids in the alimentary canal & of the Chyle produces weakness and crampt of the muscles of the body and particularly of the extremities thereof producing paralysis It increases the action of the heart & arteries of the vessels of the skin salivary glands Gilders and others whose employment requires them to use or handle quicksilver much are subject to tremors. but they seldom suffer both by from the affections caused by Lead Iron thos

for thou occationed by lead only arise when a voluntary emotion of the mus
cles take place but the effects produced by quicksilver are always pre
sent and the disease is entirely different from the Cholica pictonum
From the researches of Dr Cullenbush it appears that mercury is the
best remedy in this disease I would advise it to be given with a dec
ree to salivate as it is not necessary it should go so far to procure
for the good effects are soonest experienced when it does not pro
Cathartic previous to its producing Ptyalism
I have seen two surprising cases of the good effects of mercury
in this disease in the Penny Hospital
It has been asked whether large quantities of lead given inter
nally might not be of infinite service in diseases brought on by
mercury as a too copious salivation we know from experience
that large doses of lead may be taken internally without the
least inconvenience & Analogical reasoning would induce us
to use it in the cases above mentioned. When a cachexy of the mes
enteric bones occurs from the too long use or powerful action of
mercury on the system we should certainly be justifiable in
giving lead.

Hydrocephalus Internus This disease sometimes depends upon a
rupture of the Lymphatics of the Brain proceeding from falls
blows &c But it is almost always attended with febrile action
from its commencement being frequently the effect of remittent
& intermittent fevers I think there are no pathognomic symptoms by
which Hydrocephalus can easily be distinguished from fever pro
duced by worms or worm fever This dread full disease Hydrocephalus
is sometimes produced by worms hence it has obtained the name of
worm fever Or Hydrocephalus acutus & vomiting occurs as
an sometimes comes on which is followed by a depravation of
sight and the patient is also affected with meglecta pains in
the head They are generally severe. Stupor and low fevers obtains
to constipation sometimes a considerable discharge of worms
& finally convulsions come on by which the patient is carried off
Upon dissection scirrhous tumors have been discovered in va
rious parts of the body which circumstance induces us to

think

think the patient was descended from scrophulous parents
D^r Physician in enumerating the number of cases which occured in early
life in proportion to Adults States that of 26 patients 8 were
under 1 year old 6 between 1 and 5 — 5 between 5 & 10 — 4 from
10 to the 20^th year 2 from the 20^th to the 30^th and only one
who was past 30 Of 20 patients with Hydrocephalus 12 were
when it appears that children are not subject to it & that during
the age of Puberty it is very common for the treatment of this disease
a variety of different remedies have been recommended as bleeding
Purging &c — In 1775 D^r Dobson first introduced mercury into
practice in this disease since his time it has been common to em
plos it as a Specific in Hydrocephalis and I think with the loss
of a great number of patients Physicians are of various opinions as
to the effect of mercury in this disease some think it a certain re
medy and others think it injurious I would not as write every
thing to mercury yet it may be of use in But I cannot say that
I ever found one of my patients to recover when treated wholely to
mercury Blood letting Blisters &c I have found to be most effectu
al and I have seldom lost a patient treated in this way a copious
flow of perspiration from the head is a good Symptom and should
be kept up by flannels as it often relieves the patient in a short
time — D^r Munro employed mercury in 22 cases and was can
didly enough to say that all died altho 2 were completely sali
vated and 4 had red & swelled Gums from the Mercury —
It is advisable to prevent the medicine Purging when we wish
to salivate in this disease But the Bowels must be kept
open by injections of Oil Salts & water &c
It has been remarked that Children in arms recover rapidly in the
ative while laboring under this disease & immediately
after being cured of it
From the facts stated above by D^r Munro an important
inference may be drawn viz^t that however long a salivation
may be continued it is incompetent to the cure of this disease
When therefore salivation is excited we should not flatter
ourselves with the recovery of this children

Dropsy Mercury has been used for 100 years in Dropsy Dr Sims
speaking of the use of mercury in this disease says it is a choice
for when given so as to produce salivation Dr James says he
cured 40 patients with Dropsy by Mercury in 1765 He says
during the time his patients took the pills the water increased
until the mouth became sore when the water abated very soon
after — Dr Ferriar mentions the use of mercury in this disease
he says and I perfectly agree with him that mercury is best
in febrile Dropsys & that it does more good in Anasarca than
Ascites It is my opinion that mercury has been injurious &
contradictory to the opinion of some Authors I have seen Dys
alivation produced without curing or obviating Dropsi
cal effusions.

Epilepsy Mercury has been highly recommended in this disease taken
in quantities to salivate it is said to suspend and moderate the force
of the fits but in a number of cases in which I have seen it used
not one has been cured by the use of mercury tho salivation was
produced yet we may suppose in some cases that mercury from
its absorbent qualities has done good in this disease

Tetenus This disease is devided into two kinds the Idiopathic &
Symptomatic the first has frequently been cured by warm fric
tions Vene Opium & Peruvian Bark But Dr James Clarke
says that mercurial frictions on the neck Back and the whole
course of the Spine were of the most service and says that he
never found the cold bath of any service The second species Sy
mptomatic arising from wounds & injuries of the nerves is
seldom cured Dr Clarke says he never cured a Tetenus arising
from a puncture of a nerve to prevent it he gave two grains
of mercury a day until a salivation was produced After a sur
gical operation was performed he gave 3 grains of mercury
and 3ij of Bark daily until Ptyalism took place & says he
never

never had a case of Tetanus to occur when he used this preventative after the mouth became affected he gradually decreased the quantity — We are told that mercury applied to the affected part and given at the same time internally in pretty large doses has been of much service in Tetanus —
I have found the production of Inflamation in the effected or wounded part to be an excellent thing in this disease. —

Jaundice Mercury has been found useful in this disease both by Clarke & Monro the last of these was in the practice of giving three grains of Calomel every night as a cathartic and if the patient appeared much weakened they gave this three times a week some Physicians have used it to salivate in this disease —
I have been in the practice of treating this disease with emetics and now & then gentle mercurial cathartics
A late ingenious writer has attempted to prove that Jaundice depended upon a Rheumatic affection of the Muscles

Phthesis Pulmonalis We have heard that mercury has done great service in this disease But I might say that I have never been able to cure a patient labouring under this disease with mercury it only in my practice produced a slight elevation of the disease I think it much more difficult to produce a salivation in persons labouring under consumption than those labouring under any other disease of the Arterial system of equal action from my own Practice I would be induced to assert that this medicine has only acted as a temporary remedy & as much relief might of been attained from V.S. Blisters &c

Lepra I can say very little of this disease from my own experience having never seen but one case of true Lepra or Leprosy and that proved fatal
Mercury has been recommended by some while others say it never has performed a cure only a slight alleviation
Diseases

Swaneges recommend. Corrosive Sublimate & Hyasceamus in pills.

Hillary says mercury always made it worse & Monro on the contrary found it useful

Scrofula Porpicius formerly recommended mercury highly in this disease But of late they all agree that it is of no use and a majority declare that it aggravates the symptoms

I can say nothing of its use in this disease from my own experience

Framboesia or Yaws This disease is somewhat similar in its nature the Lues venerea - It appears ~~like~~ with excrescences like mulberries growing out of the various parts of the skin or different parts of the body which discharge an ichorous fluid ~

Dr Hillary says he found mercury useful in this disease he gave 5 or 6 grains of calomel twice a day until the Ptn. salivation was so great that the patient discharged a pint of saliva in 24 hours and kept that up for 5 or 6 weeks

Dr Bancroft thought that Cauth hor combined and determined to the skin by some outward applications promoted more expeditious salivation So much the ulcers which remain some of the mercurial preperations and even the actual cautery have been applied a single case has fallen under my notice which has led me to think favourably of that mode of treatment Calomel was given for one month during which time the sores were dressed with red precipitate a complete cure was obtained by this practice

There is another disease nearly allied to Syphilis in which mercury has been used with advantage Sibbens or Siddens this is a very common disease in Scotland & Dr Gilchrist says mercury is the only remedy which can cure it. - Cancer -

Cancer many Lear testimony in favour of mercury in Cancerous affections Yet a late ingenious writer has undertaken to Prove that there is but one state of Cancer in which mercury can be use ful & that is when it can be removed by excision and unhealthy granules are formed to this it may be observed that many Physicians have and particularly the muriate of mercury with the desired effect in other states of the disease. A man in Chester county has acquired much celebrity & money by curing Cancers with Corosive Sublimate

Deafness Many cases are on record in which salivation has cured deafness particularly when caused by Apoplexy — Robert Gordon Surgeon of the British army cured many of Deafness by mercury.

Worms Mercury is a very important remedy in expelling worms from the Alimentary Canal it is among our best Anthelmintics and perhaps the best of any

Gutt Serena Mercurial unguent has been recommended in this disease and and with success Rx Sub: Dulc: Mineral gr v Rosa alba ʒi mix into a unguent and cause to be used occationally. When Gutt Serena follows venereal affections Mercury is our sovereign remedy. In Diseases produced by the bite of poisenous Animals Mercury has been found to be of great service I have had no experience in this disease

In diseases which are produced by the poisenous effects of the Lues Radicans I have discovered that mercury is a sovereign remedy not only removing the affection but also removing or Destroying the susceptibility of the system so that the disease will not be produced by the Virus

Hydrophobia Were in to believe what Physicians have said we should believe that this disease has been very frequently cured.

Burt

But daily experience teaches us the inefficacy of medicine in this dreadful disease it is said to have been prevented by mercury exhibited immediately after the bite of the rabid Animal

That Hydrophobia has been prevented by the use of mercury I will not positively deny But I think it very doubtful we are also told that this disease has been cured by mercury used to Salivation

At what particular time should the mercury be employed to produce salivation in these cases Physicians differ I cannot agree with those who recommend it immediately after the bite of a rabid Animal - For it is my opinion that if mercury is of any service in curing or preventing the disease it should be exhibited a few days previous to the time at which the disease generally makes its appearance

Syphilis The use of mercury is so fully established in the cure of this disease and so many books of merit are written on the subject that I deem it unnecessary to take up your time. but refer you to Books

Quicksilver in its natural state is an inert substance with respect to the human body There are four ways by which it may be rendered a valuable and active medicine 1 by vaporization 2 by calcination 3 by Trituration 4 by combining with Acids

The use of Quicksilver The different methods of preparing relative virtue & force of its preperations are particularly attended to by the medical professors in their examination of the candidates for the Degree of Doctor of Medicine so that I would advise you ever to make yourselves well acquainted with this important medicine

The oxygenated muriate of mercury commonly called Corrosive sublimate I have had much experience in the use of this medicine and think very highly of it In venereal affections of children I have found it preferable to any of the mercuries it may be exhibited in a solution with Milk I think it more manageable then any other preperation When combined with opium it does not so readily cause purging as calomel does

Dr Cullin says Calomel does not seem to him to be as easily elijable

eligable preperation as it does not seem so readily dispensible in the system as many preperations are & because Calomel more readily than many others operate on the Intestines which prevents its producing Ptyalism But in my opinion calomel is one of the best as it is not corrosive to effect the Stomach It must be combined with opium whenever wish it to salivate else it will prove Cathartic But I here repeat it that it is not so managable as the corosive Sublimate for the purpose of producing Salivation —

Cinnebar This has been used with much advantage where Syphilis attacks the back part of the fauces & nares To produce salivation with this preperation throw it on a few hot coles and let the patient inhale the vapour By this method I have produced salivation in 4 hours I do not think that the preperations by calcination are preferable to any other But the preperations by triture are much the mildest —

Plenks solution is made by rubbing down crude mercury with Gum Arabic & honey & water This is a mild preperation producing gentle salivation It is also a very good gargle when the mouth is effected with Syphilitic ulcers it is not disagreeable to the taste and more of it may be taken without inducing salivation than any other preperation of mercury

Mercurial Water By boiling water a considerable time on mercury This has been used as a gargle in ulcers of the throat &

This water is generally looked upon by Chemists as inert & has been compared by a certain Professor to broth made of pebbles. But it certainly contains a portion of mercury. and in this way a strong mercurial solution may be obtained as I have witnessed. A Black oxyd of mercury is made by agitating a certain quantity of mercury in a pint of distilled water in a bottle for a considerable time If the agitation is continued long enough the whole of the

of the mercury will be reduced to a fine powder of a Black colour
This is a very powerful preparation killing worms & leeches
in a few minutes —

It is said by some and with a great deal of truth
too that the blue pill is less effectual in the venereal disease
than the Calcine preperations —

Mercurial Ointment was formerly prepared by rubbing
with lard or Suet a quantity of Terebentine previous to the addition
of mercury But its effects in producing inflamation has induced physi
cians to reject Terebentine In winter the lard will answer very pur
pose But in Summer it is melted and the mercury deserts it and
it falls in large quantities to the bottom of the pot We are ad vi
sed to make use of old rancid sweet oil with which the mercury
is easily diminished upon rubbing and it affords the most expedi
tious method of making the Ung Mercur We find the pure
sweet oil answers full as well as the rancid and has been
adopted at the Dockenoatory of this city
In using mercurial ointment we should always endeavour pri
tion as its effects are sooner produced by this means than wh
en simply applied to the part.

The Mercurius precipitatus Has been found to be of great service
It is said to be preferable in old cases of Syphilis exhibited
in combination with opium It does not effect the mouth
and intestinal canal so powerfully as Mere Dulc & some
other preperations of mercury —

The Turbith Mineral When pure is a powerful emetic it has been
used from 1 to 4 grains as it causes disagreeable vomiting we ob
ained not go so far —

The Phosphate of Mercury This we are told has been found very power
ful in its action taken in doses of a few grains when exhibited in
small quantities it is a mild mercurial article and is of service
in Syphilitic affections —

Red —

Red precipitate is an excellent medicine externally employed in old ulcers & I have exhibited it internally from 1/2 a grain to 2 or 3 grains a day and with evident advantage in venereal ulcers of long standing —

Unguentum Citrinum This is an invaluable medicine in old ulcers. Lenia Capitis Psora or Itch Ring worms and it has frequently cured Herpetic affections but I have known it to fail of curing Herpes when a solution of Corrosive sublimate succeeded — This ointment sometimes Produces Ptyalism —

Modus Operandi of Mercury or the manner in which it operates in curing disease. not one of you will believe I am one that mercury cures of Syphilis & its weight some are firmly of the opinion that it is never taken into the circulation It is never found in the metalic state in either the secretions or excretions Dr Cullin says that mercury universally in its active state seems to be obnoxious to every sensible and moving fibre to which it is immediately applied and consequently it is a stimulus to every excretory of the system to which it is externally or internally applied, besides its noted effects upon the excretories of the saliva it seems to operate on the whole of those of the alimentary canal It often proves Diuretic & I have particular proff of its acting on the organs of perspiration A Physician took a quantity of matter from a venereal Chancre & mixing it with some of Plenks gummous solution of mercury introduced it into the arm no effect was produced From this and other facts some suppose Mercury —

mercury to be an antidote to Syphilis - For a variety of injeni
ous experiments I refer you to Jongues Thesis —
Dr Cullen supposes mercury cures Syphilis by increasing
the secretions by which means the poison is thrown out
of the system But it is much more plausible that mercury cures
this disease by acting as an antidote to the poison I do not think
that this is proven to be the case & its curing many other diseases
besides Syphilis such as Yaws Psora Sibbens Colica Pi
ctonum and preventing Tetanus does not tend to enlighten
the matter for if it is an antidote why not to all and if we all
ow it is an antidote to all why does it not cure Tetanus as
well as prevent it —
Mr Jno Hunter believed that mercury operated upon the
principle of destroying the diseased action of the living part
and that it then created a new different & stronger action
It is the belief of some that irritating substances act
differently from other while others believe they all act alike
and upon one general principle I am disposed to favour the
opinion of Hunter and suppose that mercury cures Syphilis
by creating a new action or disease in the system rather than
that the cure is effected by some chemical effect produced
by the mercury or if this were the case the cure might fre
quently be made without salivation or fever being produ
I am of opinion that one or both of these effects should be
produced in order to obtain a complete cure of Syphilis
I believe that other medicines cure venereal affections
besides mercury as the preparations of Copper some of
which have been employed with success in the venereal
disease & Cancers in particular I have been cured by them
preparations also by Burnt Alum both of which I
suppose to act in a manner similar to mercury Syph
ilis has been cured by Sudorifics which should be empl
oyed for a long time The Colocynthica apples
I believe have also cured this disease —

Mr Hunter believes that mercury produces irritation of diseased
parts different from the irritation of Syphilis & stronger
by which

by which means the system is rendered insensible to the venereal virus Cancers are cured sooner by Red precipitate & corrosive sublimate than they are by calomel The system is more liable to receive impressions at one time than at another Severals negroes were inoculated for the small pox a few days after the Hematten winds began to blow but not one of them took it 3 weeks after 60 of them were again inoculated with the same matter and every one took it the others took it the natives was inoculated 3 times 3 time without effect because they had the Psoria after this disease was cured they were inoculated and took the effects or they were each time inoculated with the same matter

Action of Poisons Poisons are of three kinds viz. The Animal Vegetable and Mineral some of them communicate their effects by contact others do not. Small pox is said to be communicated with & without contact But many respectable authors are of opinion that it can only be communicated by contact with persons labouring under it or with infected linnen &c. For morbid poisons to produce the effect above disposition must exist and nothing must be done to prevent their action to cure them something must be given that would totally prevent their action or stop their effects as in the Rot in Sheep the Mange in Dogs & many diseases in men. But it must be remembered that in many peoples past through life without disease the constantly disposed to them

Some persons are not so susceptible to poisons as others I has a fellow Student who could never take the venereal disease tho he frequently tried to get it & when he inserted the venereal matter beneath the cuticle it produced no effect he was called the happy fellow I knew a Lady who was frequently inoculated for the small pox by Dr Bond without taking it she had often been where persons were labouring under it without being affected in her 5-9 year she took the disease she knew not how having never been exposed to it for a year previous to her being inputed this case appears to prove that there is some persons not susceptible of the impression of disease at certain periods of their lives —

A Parsons

A person who has been inoculated for the small pox broke out in 9 days while one who receives it without inoculation does not break out in less then 12 days this shows that a difference exists between the periods of time required for a poison to act when inserted into the skin & when inhaled into the lungs it is remarkable that Syphilis never shows itself upon the skin while mercury is operating on the ulcers neither will it attack the bone then altho it will afterwards unless the patient takes mercury enough to eradicate it from the system It has been said that mercury & small pox have both been seen to act on the system at the same time But I would advise you to be careful how you give an opinion on this point I never saw but one case of it in all my practice — In warm climates the effects of mercury are seen sooner then in cold ones. in ulcers with callous edges if mercury is given it removes the callosities But it should be left off as soon as they disappear otherwise it will make them increase in size unless they arise from Syphilis in which case it must be persisted in un til the cure is completed As mercury cures ulcers by producing a new action it is necessary to discontinue it as soon as its irritating action is perfectly evident Mercury exerts much greater force upon recent wounds then upon old ones the cicatrization in cancers takes place as soon generally as the action of the mercury takes place upon the salivary glands

Why is mercury often serviceable in ulcers not from morbid poisons

Why does it cure those ulcers with callous edges after being in a salivation for some time

Why does mercury cure ulcers after they have been sometimes ta king altho it failed to do it when they were recent.

Why does Syph mercury cure ulcers ~~after they have been sometime standing~~ without them with callous edges and sooner according to the observation of many persons a Mercury fails to cure cancer frequently but in many cases it is of service Saw Diet has greater effect upon cancer then upon any other disease

Mr Adams says that mercury is not adapted to poisons a majority

A Majority of British practitioners says it never does good in cancer with callous edges Mercury is a remedy that ought to be tried in every case of ulcer not attended with slough In many ulcers that do not spread at first to mercury it must be tried again & again for in some cases after 12 per tin salivations they heal & are cured

Diseases cured by Mercury When mercury is exhibited in large quantities to persons who have recent wounds it is very liable to produce Phagedena tion even Physician therefore except in warm climates where there is great danger of Tetanus should avoid the use of mercury in wounds or in buboes just opened In ulcers where mercury has been given freely and where there is danger of Sphacelus as in wounds the medicine should be left off as soon as the edges of the sore become of a florid appearance Thus writes says Mr Adams in his Treatise on Morbid poisons It is a work I would recommend you all to read

Phagedena When this extends rapidly we must use Sarsaparilla especially where the Phagedena has been induced by mercury Mr Adams used Flor Martiales in two cases Carrot poultices & Hemlock are most important in this disease

The influence of mercury extends to every part of the System with its influence on the bones we are not particularly acquainted it appears the presence in them a predisposition in them to disease & some say it occasions them to take on diseased action

The fever produced by mercury is Sui Generis & is a specific disease in the opinion of some It is the Febris Mercurialis of some authors & to be cured by leaving off the mercury & taking gentle cathartics of Sulphur Cream of Tartar &c & if the pulse be full and strong V S may be used &c

The Constitutional diseases produced by mercury are Headach debility total incapacity to business & sometimes Epilepsy & Palsy after its use for a great length of time I will give you the following axiom which you ought never to forget & constantly attend to never visit a young person while labouring under a deep salivation without frequently inspecting & examining the wounds or ulcers & which may exist in any part of his body &c

I had a patient to whom I exhibited the Conium Maculatum and
tho by it I have heard of several others who were salivated by that
medicine. –
Professor Thunberg says that he knew lead to salivate
Dr James informed Sir George Baker that he knew 12 persons
salivated by James's Powder He says that no fator of the kind
occured –
I knew of one salivated by it.
There are some instances on record of salivations from Arsnic
But I have never saw a case of this kind altho I have given
it in pretty large quantities neither as I think it has occured in
the practice of any Physician
It is said that conium maculatum frequently salivates it was gi
ven largely in the Hospitals at Norfolk and very generally produced
a copious salivation Dr Hallen mentions that this medicine fre
quently salivates I have known it to salivate a number of persons
I knew a Mrs Wm Thompson a patient of Dr Wistar with Cancer
to whom the Conium Maculatum was given for a length of
time & in very large doses it produced a vacination Red Gums &c
But very little fator was observed and that very different from
the fator from salivation from mercury
If you have all heard no doubt of the salivating properties of
Oxygen & will be surprized when I tell you that there is not
one authentic case upon record to which some material objec
tion cannot be urged for instance a number of those that
were salivated by oxygen gas inhaled that which was produced
from the oxyds of mercury and consequently a portion of the
mercury was held in solution & effected the salivary glands But
one case has occured as above mentioned of oxygen gas sali
vating when it was not produced by the oxyd of mercury
Sauvages sometime ago advanced a theory that mercury sali
vated by means of the oxygen it imparted to the system he sup
that oxygenated ointment will cure the venereal disease as well as
mercury The following is the manner he makes the oxygenated
ointment

ointment ℞ Axp proline ℥ss[oj] Nitric Acid ℥ij[oz] Lave them together with a gentle heat ℥ij of this ointment contains ℥i of the Nitric Acid The weight of this ointment is considerably more then the weight of the ingredients prior to their mixture He says that the Acid is decomposed and that the oxygen unites to the Lard When well made this ointment is of a pale yellow colour Herpatic eruptions Ulcers &c are cured with it. It cures Syphilis stimulating the muscular fibres and causing citrization Erysipelatous eruption yield to it says the french Author—

For my part I am very doubtful whether it possesses so many virtues having never used it myself I cannot think that mercury operates by its oxygen I would ask those who believe this Doctrine What the Oxidus Hyperoxidi of Oxygen is & Why it does not salivate when taken into the stomach in the gaseous form again 100 grains of Corrosive Sublimate cure the most obstinate Syphilitic affection & ten thousand grains of Oxygen cure not

Nitric Acid I have little experience of the use of this medicine in diseases it certainly is loosing its former great character in the cure of Syphilis Mr. Blair and several others have failed with it it certainly will not cure Syphilis where no mercury has been given But experience has shown a number of Medical Practitioners that it is of great service in removing Syphilitic affections and eruptions of the skin where great quantities of mercury has been exhibited without effect It has also cured Herpetic eruptions and I have heard of two cases of Hepatitis cured by it after mercury had failed —

The Nitric Acid is certainly an excellent substitute for mercury in some cases & when given in some weak habits it agrees as well as mercury — When mercury is given to a patient with Syphilitic or cutaneous eruptions with the Nitric acid a less quantity of mercury will cure the disease

The Nitric Acid is certainly a valuable Tonic and can be given to persons labouring under debility with great advantage —

It is —

It is also combined with Quicksilver Lard or oil and formed into the ointment known by the name of Ung Citrinum which has already been spoken of. But I may add here that it is also used in Syphilitic Convulsions & a valuable medicine in cutaneous eruptions.

Antimony Some of the preperations of this medicine have been known to produce salivation several cases of this effects of Antimony are on record and I have seen one case in which Tartar Emetic produced salivation which continued for 10 days — The person had not taken mercury for a long time previous to his taking Tart Emet which appear to have produced the effect indeed I think there is not much doubt but what it did.

Internal Sialigogues from the Animal Kingdom The substances which come under this head are few and can never I believe be employed in the medical art —

The Garbage called by some Sparrd This is found on the shore of some of the West India Islands and other places
Dr Say observes that the salivary glands of those persons who eat that fish are swelled & that an increased secretion takes place sometimes they produce pain in the limbs & uneasiness in the head —
Hogs who eat this fish die in a very few hours in great agony and bodily pain Dogs are also soon destroyed by its deleterious effects being first seized with violent convulsions which end with death

Six crew of a whale having caught some of these fish and after cooking eat very freely of them in the space of 8 or 10 hours afterwards all who had eaten of them were affected with a great uneasiness at the stomach nausea vomiting restlessness & delerium inability to retain urine or faces attended with great thirst & high fever several had convulsions and others were deprived of their senses for several days but at length they all recovered though slowly being left very weak But for several weeks after their faces were swelled and the action of the salivary Glands so much increased that they shit

spit very much which also tended to debilitate them. Some of them for a length of time afterwards were effected with Amentia or loss of memory. Fortunately for the crew & people the officers eat none of these fish Naturalists say these fish are not deleterious all the year but only at certain periods when they feed upon the sea blubber which is said to be the cause of their violent effects & if the intestines are taken out as soon as they are caught no ill effects will occur from eating them

The Blubber or Sparas are a species of Vermes and it is generally known that the Sparo receives their salivating properties from the Sparas or Blubber.

In the spring of 1804 a Lizzard of a peculiar species was sent me from Dr Bartram this animal emitted from its pores a fluid resembling milk in colour which when I first appeared at first to act as an astringent it then produced a caustic burning sensation over the whole mouth & shortly ~~after~~ caused a salivation which continued for 24 hours after I frequently washed my mouth with warm & cold water the experiment was again tried on myself and on some of my friends & it produced precisely the same effects

In South America there is a species of Lizzard which if taken raw in small pieces produces copious salivation:

Emetics

These are medicine which excite vometing and thereby bring up the contents of the stomach it is probable that the periestaltic motion of the Intertinum Duodenum & part of the Je- junum is inverted and their contents evacuated by the mouth this is reduced almost to a certainty that after puking a quantity of bile is discharged which in a state of health is never in the stom ach and if it had of been in the stomach it would of been thrown out at the first vometing but it is only after repeated vometings & strainings that the bile is evacuated: in the action of vometing the action of the Diaphram & Abdominal muscles concur at the same time the whole viscera of the Abdomen are strongly compres this pressure must effect the Gall Bladder & Billicary ducts and occation them to pour out their contents very largely.

There are three kinds of emetics they are obtained from the An imal vegetable & mineral Kingdoms

Of Emetics in General

Some are of opinion that the action of vometing is conducive to health and that altho we are perfectly well we should occationaly take a vomit to keep us so.

But I think when we are in health we should by no means take th ese medicines as they can do no good and may do harm

Dr Cullen says that the too frequent & excessive use of emetics may do harm & are injurious.

The first effect of an emetic is to evacuate the stomach 2ly the Duoden um & part of the Jejunum these two intestines are frequently evacua ted by good emetics given to operate smartly this is not always the ca se as has already been observed — Bilious vometing takes place in sea sickness.

Dr Cullin thinks that emetics produce an evacuation of bile from the gall Bladder ducts &c

Some Physicians and the vulgar are of opinion that the bile brought up by vometing existed in the stomach previous to the exhibition of the emetic the stomach is more passive

in vometing then we generally suppose

Dr Chyne was of opinion that the stomach was entirely passive & compares it during vometing to a Gyster pipe in giving an injection & that vometing is effected by the Diaphragm Abdominal and other muscles. Vometing increases the circulation for a while afterwards the pulse becomes slow in proportion to the first increasing effect of the Emetic. Emetics may be managed so as to prove Diaphoretic. Dr Cullin says Emetics produce sweat by stimulating the vessels of the skin. But all Emetics do not prove sudorific as the Digitalis purpurea & Squilla — Emetics Dr Bryan Robinson says produce astringency and corrugate and stop the mouths of small arterys when Bleeding for which reason he gave them in Hæmoptesis

John Hunter thought that vometing increased the action not only of the absorbents but of all the vessels of the Testes for which reason he gave them in Hernia Humoralis —

The effect produced by an Emetic is generally as follows in 20-30 or 60 minutes after the exhibition of an Emetic a peculiar nausea comes on followed or attended with a pain in the head slight rigor occurs the pulse becomes low & slow the eyes loose their lustre & dejection takes place during vometing there is a great action of the muscles of respiration &c the vains which had shrunk away swell & become rigid the countenence which was pale becomes florid After having pucked 3 or 4 times the sickness goes off. Then returnes and perspiration becomes copious — But Different Emetics produce different effects as Tartrate of Antimony & Squills —

Some are of opinion that all Emetics contain something deleterious to the Human body & that when they are taken into the stomach the bis Medicatrix Naturæ exerts itself to throw them off lest they should prove injurious to the Animal Functions But there is a very great & powerful objection to this belief supported by a fact well known that the purest water heated to a certain temprature will prove Emetic to any person if taken in large quantities if taken in very small quantities will excite vometing in some who will say that warm water contains any thing deleterious —

deleterious. But upon the whole the opinion is founded upon truth I think that all Emetics warm water excepted contain something deleterious

Of the Use of Emetics in Diseases And first of their use in

Asthma In this disease Emetics have been very often used and with advantage by Dr Akinside who says there is no remedy so effectual in removing Spasmodic Asthma He gives ℈i of Ipecacuanna at first and afterwards from 5 to 10 grains every morning for a month & from 3 to 5 grains every morning & evening in doses of 5 gr this article very often proves emetic & I find it a fact that good Ipecacuanna will always produce vomiting in doses of 5 or 6 grains Dr Akenside says that it is proven that it relieves by Antispasmodic powers.

Humeral Asthma Dr Willis recommends in the height of a paroxism & particularly Ipecacuanna if given in the paroxism it will immediately relieve it. He divided asthma into the humid & spasmodic very accurately

Epilepsy Emetics have been exhibited in this disease & are highly recommended I have adopted the practice in the Penn'a Hospital yet I would not recommend the practice to you not having sufficient experience myself of the use of this medicine in this disease but I might observe that I have never known their effects injurious Richter says they do good always when Epilepsy comes on regularly For instance at 8 o'clock P.M. an Emetic should be given at half past 6 or 7 in the evening i.e. an hour or an hour & an half before the fit comes on

Hydrocephalus Internus Emetics have been recommended very highly by some in this disease but I do not think they are by any means proper.

Rheumatism In the inflamatory or Acute Rheumatism Emetic medicines are highly important and I think may be employed with great advantage

Gout In some cases of this disease I myself have found emetics of very great advantage —

Dysentery & Diarrhoea In both these diseases Emetics have been employed with advantage I have used it both in recent & old Dysentery and found it very useful I have never employed it in form of infusion but in substance as Ry Pulv Ipecac ℈ss–xij Gum opii ℈ss ij Creta ppt ℈ss–xfiss M & divide in Doses No viij one to be given every two hours I have found Ipecacuanha nearly a Specific I think this medicine best adapted where there is a great discharge of blood

Diabetes Emetics promise much here but I have never used them in this disease —

Puerperal Fever I have lately adopted the use of Emetics in this disease and I think with great advantage —

Singultus or Hiccough has been relieved by emetics —

Hæmoptysis Dr Bryce Robinson from his Theory used emetics in this disease with success Some suppose they lessen the force of the circulation & thus prove servicable Dr Cullen says they were frequently useful but he found a case where they did harm and the fear of meeting another such frequently prevented his giving them

Hæmorrhages In various hæmorrhages emetics have been recommended by many Physicians But particularly in expectoration of Catamenia.

Uterine Hæmorrhages In this Emetics have been found of very great advantage & also in bloody Urine or Hæmaturia we are invited by nature herself to use reaneating medicines Uterine

Uterine Hæmorages as we have frequently seen those Hæmorages cease when nausea or vomiting comes on And may we not suppose the nausea which is generally attendent on Pregnent women to be a provision of nature to prevent Uterine Hæmorages which in a Majority of cases might prove mortal or very inconvenient to the Foetus in utero We are by no means able to say in what manner the Cacoanna check those Hæmorages it has been supposed that it possesses some universal Antispasmodic quality we are told that the application of Blisters to the Ankles in those Hæmorages are invaluable remedies. In one case where, I gave the Specacuana, to right nausea only was induced; & the Hæmorage instantly ceased, might we not say it acted by producing a new action in the system.

Hernia Humoralis We are informed by some that Emetics have been employed with advantage in this disease Dr Hunter said he used them because he believed all the action of the Testes were increased I have used the Turbith mineral in several cases of this disease generally with evident injury & seldom with advantage This is the Emetic principally used by Hunter it is thought that this disease depends on venereal taint But this is not often the case & where it is Emetics ought not to be employed = upon the whole I think that Emetics have been of no service in this disease

Jaundice Emetics have been highly recommended in this disease & particularly in cases of Calculi in which every practitioner can bear witness of their utility after the action of an Emetic Gall stones have been found in the fæces this practice prevailed much in Edinburgh when I was a student there - Emetics have been given to discharge Gall stones without any regard to the situation of the patients Dr Homes practice was found to be the most efficacious He placed the patient in a warm bath when the Emetic was given him = This is supposed to relax the whole system

Rx

o/particular Emetics

Emetics have been divided into

Relax Emetica as warm water

Resolut- ——— as Emet Tart Squills &c

Calida ——————— as Ipecac

Drastica ——— as Vit Alba &c

I do not think it necessary to make this division

Vegetable Emetics and first

Groundsel This is a more powerful medicine than has generally been supposed - It is sometimes employed by the common people as an Emetic The Scotch employ it externally by way of Cataplasm -

The expres'd Juice of this plant is an excellent remedy for the Bots in Horses. a

Nicotiana This I have already treated of under the head of Incitantia or Stimulants but it deserves an attention as an Emetic Tobacco when externally applied to the region of the Stomach proves Emetic in a short time & it has proved Emetic when other Emetics fail in cases of over doses of Poison taken into the Stomach it should always be resorted to Dress it with sweet oil after too large a dose of Laudanum has been taken after the emetic had failed to claim the origin of the use of this Emetic To prepare it for this purpose the leaves of such of it as is generally used in chewing should be bruised & mixed with a quantity of musk & applied as before described a

It is also said to discuss tumors of the Epigastric region when applied in the form above directed The quantity of this article should be regulated according to the age of the patient a

Specacuanna

This is a most unique article among the emetic medicines the root is the part which is prepared for common use it is exhibited in powder or Tincture made of 3ij of the powdered root & 3ij of wine whether exhibited in powder or Tincture it is the most certain emetic with which we are acquainted provided the article be good I have known one grain produce vomiting to a considerable extent as to the dose of this medicine I do not think it necessary to exhibit more than 6 8 or 10 grains at a time in doses of these grains I have known it to produce full vomiting I have generally used it in combination with small doses of J. emet & I think the combination the best the Tincture has been exhibited to the quantity of 3ij at a dose But the Tincture also depends on the quality of the Specacuanna I have known 15 grains & even larger quantities given at a time —

It is an established fact that Specac has sometimes caused Spasmodic Asthma. Dr Akenside has mentioned one case of this kind I have witnessed its effects in this way in a subject of Jaundice He was unable to weigh the smallest quantity of this article without being seized with anxiety & considerable spasmodic action about his chest — I thought the affection imaginary & to prove it disguised small quantities of Specac — with other medicines which I directed him to weigh & they uniformly produced the same effect — He is now a practitioner & still subject to the same inconvenience. —

Use of Specacuanna in Diseases.

Intermittents Specacuanna has been recommended in these fevers just before the coming on of the cold fit I have known it of great service —

Phthisis Pulmonalis I have imitated the practice of a Physician of this City in prescribing Specac in this disease & have always found it serviceable But I never exhibited it with a design to promote vomiting But merely to produce & keep up a slight nausea in doses of gr ij 2 or 3 times a day or as the case may require I generally mix it with the Creta & give 5 or 6 doses a day

Small Pox I have used Specac with much advantage in this disease when the patient was affected with difficulty of breathing from the quantity of Phlegm & strangulation threatning a termination of the disease in death Dr Strenhouse used to give 3i of this medicine in these cases with advantage

Hypnache Tracheatis I have found Specac & Cal useful in this disease particularly in children

Dropsy Specac has been recommended in this disease and particularly in Anasarca exhibited in the form of Dovers powder It is supposed to produce its good effects in this disease from its determination to the skin I have used it with great advantage

Dysentery In this disease the Specac is an invaluable medicine article exhibited in the following formula Rx Pulv Specac gr xij Gum opii gr ij Creta ppt gr xviij M divide into viij powders give one every two hours This is the formula I have employed in my practice for 7 years in Dysentery I may observe that Specac is the article I have relied on and if in using the above formula you do not find it of more service in the true Bloody Dysentery where the bowels are over loaded with faces I by no means recommend it as a cure

Rome

some are of opinion that this medicine acts merely by its Purgative qualities I by no means agree with them gentlemen for I am certain that it does not produce its good effects by its purgative qualities neither do I suppose it cures by its Diaphoretic effects = In the Hyes as it is commonly call Specac has been given in pretty large doses. I think very highly of Specacuanha in destroying the deleterious effects of Opium I knew a person to take 20 grains of Opium & was cured with Specac speedily relieved by a large dose of Specacuanha I shall end much more on this then I do on White Vitriol c

Spiræa Trifoliati or Indian Physick as it commonly called this is a powerful Emetic it may be given to 20 grains at a dose it has been thought to be the Specacuanha its so much like it when powdered = A Decoction of this plants Root & Bark has been given to Horses in the Spring & Autumn it acts as a powerful Tonic c

Scilla or Squills This article was frequently employed as an Emetic formerly but since the use of Specac- was known Squills has seldom been used in this way the dose of the squills is not easily ascertained but about 4 or 5 grs a full dose appears to be less manageable then several other Emetic medicines its Emetic Diuretic & Cardiac

We can never presume upon the operation of Squills in any manner without their being given in such quantities as to excite some degree of Nausea & circumstance that renders the squills a disagreeable remedy = Persons labouring under Phthisis Pulmonalis are always when riding on horseback affected with Nausea or Vomiting and thus are sometimes cured hence the good effects of riding on Horseback should not be as they generally are ascribed wholly to the exercise For the Nausea & Vomiting thereby arising plainly demonstrates that in many such cases that nauseating and Emetic medicines might be employed with advantage c

Siliquose plants considered as Emetics

Sinapi

~~Crucifi~~

Sinapi or Mustard This when taken in large quantities with warm water proves powerfully emetic & perhaps no medicine does so readiness vomiting yet a weak solution of the powder is a very excellent remedy in restraining vomiting.

Raphanus Rusticanus or Horse radish this in producing and restraining vomiting is very similar to the Mustard.

Emetics from the Mineral Kingdom

Sulphate of Copper or Blue vitriol This is a very powerful emetic & may be exhibited in the following manner viz. let the patient take a pint of water in the morning fasting then the sulphate of copper to the ammount of 10 15 or 20 grains some oppose this medicine to be entirely deleterious & dangerous but as others say & as I think & have experienced it's a very managable emetic though it's not so good or so valuable an Article as the Vit Alb —

Equal parts of the sulphate of copper & Tart emetic have been given in a dry state & hence it's called the dry emetic —

Antimonium Mineral I have already spoken of the emetic qualities of this medicine in combination with Squills it has been exhibited in Dropsies

Sulphate of Zinc or White vitriol This is the only preparation of this medicine that is used as an emetic — In doses of 5 grains to ℥ss it acts powerfully and produces vomiting in a very short time — ——— The Sulphate of Zinc is thought to be a very convenient emetic in certain cases A very excellent solution for the exhibition of this medicine as an emetic may be formed as follows Rx Vit Alb ℥ij Aquam ℥i Warm water ℥i ℔ss

In Phthisis Pulmonalis This is an excellent Incrassating Preparation & I have exhibited it with decided advantage early in mornings or between Breakfast & Dinner. The ———

the Physicians which employed this preperation of Zinc did not exclusively prescribe it in Phthisis Pulmonalis but with Dysentery &c with advantage &c

Tartar Emetic This is the medicine most frequently used as an Emetic both in England & the U States it is exhibited ~~the~~ in doses from 1gr. to 5 either in the form of pills united with the Conserve of Roses or in solution or as I have said before in combination with Ipecacuan in the dose of 1gr. of T.E. to 10 gr. of Ipecacuan this forms an excellent Emetic. In patients in some cases it is necessary to divide the dose into small quantities which may be given at intermissions of 15 mt.

Kermes Mineral This is a powerful Emetic and also a valuable article It is principally used by the French & Spanish Physicians but we seldom use it in this city it sometimes produces salivation The celebrated James Powder has been employed in preference to the Antimonial Emetic by some practitioners of medicine though I cannot say much of it from my own experience James powder is an excellent medicine = James himself says it ought to be given to the quantity of 1/4 gr. at a dose but Dr. Mosses says that 20 or 25 gr. is the dose of this medicine & should at first be given in small divided doses.

This powder I perceive rarely produces vomiting as other Emetic medicines which would in this case prove of equal service =

Cathartics These are medicines which produce an evacuation of the intestines per Anum =

This is done by stimulating them & increasing their peristaltic motion Calol & contagion frequently produce evacuations of the intestines by their stimulating effects There are several cases to be met with on record of persons having had a stool by being made to walk over a cold pavement after Cathartics had been administered for several days without effect in Colica Pictonum =

The use of the cold bath & throwing cold water over the body immediately produced a stool = Dr Cullin divides Cathartics into two kinds or Classes The Cathartica Acriora & Mitiora some are doubtful whether or no any of the Cathartics are absorbed & taken into the circulation of the Blood some deny it But some of opinion that some of these medicines are taken into the circulation As to the dose of purgative medicines must depends on the peculiarities of different people the doses of Rhubarb & Jalap in the quantity of 25 grains of the one & 20 of the other in some persons produce the desired effect while in other persons double this quantity is requisite to produce the same effects D Lady of my acquaintence is very much purged by a few grains of Rhubarb I know two Ladys to whom a teaspoonful of common Molasses produces the same effect as a full Cathartic—

The effects of Cathartics are various—

In health a stool in 24 hours is the nature standard but many in natural health but many in nature Health go without an alvine evacuation for 3 or 4 days—

Costiveness is generally injurious, but there are some cases in which it is not as for instance in Typhus Mitior when the patient is low & weak though in many other febrile diseases it does harm In Typhus fever I generally open the bowels gently in the first stage but in the 2nd & 3d I am indifferent whether they are open or not many are naturally costive & have not a stool unless they take a cathartic = Habit has great influence on the Peristaltic motion of the intestines A person regularly goes to stool every day at a certain time whether he has an inclination or not will acquire an evacuation every day at that time Habit has also great influence on our Bodys you should study the subject diligently.—

The difference in the different powers of the Cathartics is known to be very materiae & shall therefore in speaking of them medicines seperately arrange them according to their powers &c

Of Particuler Cathartics

Colocynthis This is one of the most Drastic cathartics we have no reason to doubt the authority of these writers who tell us that the Colocynth sometimes produces inflamation of the Alimentary canal & death.

The pulp of this article is used it has a nauseous bitter taste it is a choice of Gpower the dose is 1-4 & 8 grains but it is usu done given Gitrly Ri Colocynthis & Scammony equal parts with a few drops of the oil of cinnamon & rub them well together of this an Adult may take 4 grains in sugar & water as a moderate purge

Scammonium This is next in power & nearly allied in Botanical affinity to the Colocynthis

The scammony is a very powerful purgative Dose from 1 to 12 grains

Gambogia This is a powerful & valuable cathartic exhibited in doses of iij or iv grains in the form of pills it is a very effectual cathartic medicine it is said sometimes to cause vomiting

There are three species of Gamboge but that used in general is the Gambogia Guttæ of Linnæus

Helleborus Niger or Black Hellebore this grows in the mountainous parts of Switzerland & Austria Perennical Plant blossoms while the snow is on the ground in December sometimes in January the dose of this medicine is from x grains to ʒß for an Adult—

Aloes This is a Gum of a dark red or brown colour & very bitter its a good cathartic and may be given in doses from 10 to 20 or 25 gr—

It is the inspissated juice of Aloe Trifoliati (of Linnæus)

Salapium or Salap The plant from which this medicine is obtained is the Convolvulus Salapa of Linn) it is said to have taken its name from Halapa a town in New Spain—

It is the root of this plant employed in medicine it contains a Gum & Resin the first is a little cathartic the latter is powerfully so The Salap is certainly one of the most unsure cathartics as is manifested by the practice of medicine in all countries—
Dr Cullin says that when combined with the crystals of Tartar it does not gripe & that when mixed with Lard sugar it is an excellent remedy for children But I do not think it at all adapted for children for an Adult it is an excellent cathartic from x gr to ʒß the extract of Salap contains the Gummous & Resinous parts the dose of this is from 4 to 12 grains = The Tincture of Salap made with good proof Spirit is an excellent Cathartic in dose from ʒi to ʒß Salap combined with Calomel has been used in Dropsys & ℥-fever But I think Rhubarb & Calomel better adapted to them Diseases to malignant fevers

There is a species of convolvulus used very much among the Indians as a purgative and is thought little inferior to that we employ—

Podophyllum

Podophyllum Peltatum commonly known by the name of May apple This is a native & very common plant in the Northern parts of the U States in Virginia it is called umbella Duck foot &c The fruit of this plant has a very pleasent & agreeable smell the leaves are poisenous & acrid causing sickness at stomach Vomiting delirium & great debility the root is the part employed in medicine. I have employed this medicine for 10 years both in my private practice & in the public institution in this city I prescribed it in the Dispensary of this city in doses of 20 & 25 grains for an adult in the yellow fever I have often given it in combination with crystals of tartar of each 25 grains & also 4 or 5 gr of calomel with 30 of the Rad Podophy Pelt. which does not leave the bowels costive after its operation and hence its use in inflamed tong fever.

I think this medicine preferable to Rhubarb or Jalap as the dose is less than that of either neither is it so subject to gripe & it is less nauseus. Combined with 4 or 5 grains of calomel it seldom or never gripes & is rendered much more active. —

Colica pictonum or Dry Belly ach The Rad Podo Pelt— is an excellent medicine here the root bruised & immersed in Boiling water & suffered to Digest for 3 or 4 days the scum being taken off the liquor is then sweetened with molasses & given in sufficient quantities to the patient to produce 3 or 4 stools the quantity will be 4 or 5 table spoonfuls This was Dr— Wyatts famous & secret cure for the Cholica Pictonum As a purgative I have found the May apple superior to Jalap in the cure of Autumnal Intermittents —

The Podophyllum Peltatum appears to possess an Anodyne property this is manifest in Adults & in children but this effect is of short duration - in large doses it acts as an emetic & sometimes in moderate doses it has this effect but

but most commonly when the Stomach is diseased it does not so frequently cause vomiting as does Salak I am much surprised that some writers did not mention its cathartic effects. Catlin mentions that it is used in South Carolina as an emetic the Cherokee Indians use it as a remedy for worms every medicine that purges or Purges has occationally expelled worms But they do not on this account merit the appellation of Anthelmintics

Senna This as a purgative is entitled to our attention the leaves are employed in medicine it is an acrid Cathartic & its operation is often succeeded by fever Aromatics should be combined with it —
The American species of Cassia Marylandica appears to possess all the virtues of the Cassia Senna Dose from ℈i to ℈i —

Juglans Cinerea or Butternut or Virginia White Walnut this is an excellent Cathartic medicine an extract prepared from the inner bark of the Butternut Walnut has long been used as a Cathartic in the U States it is well adapted to the cure of Dysentery & appears to possess considerable Anodyne properties It has been said to possess disagreeable effections of the head But I have never observed it in many years practice Dose from 10 to 12 grains —

Sinapi or Mustard The seeds of this plant are used is an excellent cathartic taken to the quantity of two table spoonfuls It seems adapted as a purgative to cases of Rheumatism & Palsy After the Bowels are open they are easily kept so by this cathartic

Rheubarb Rheum Palmatum of Linn / This is an inestimable Cathartic it may be exhibited in Doses of 20 grains to ℈i and produces its effects very effectually I think it preferable to Jalap as it does not so often excite Nausea & vomiting it has been said to possess Diuretic effects properties — It is —

It is also thought to be an expellent medicine in diseases of the Liver = It is a bitter and seems to restore the tone of the Stomach & intestines when impaired = Dr Cullen denyes that it possesses Diuretic properties but I think I have observed them & Piso expressly says it produces Diuretic effects —
Home applyed the Root finely powdered to ulcers & supposed it produces granulations —

Bastard Ipecacuanha This is a native plant often given in large doses it proves emetic but I have seen it prove purgative in the dose of xx grains. —

Pleurisy Root This is celebrated in virginia in cases of Dysentery & much has been said of its use in Pleurisy Low it proves serviceable by its purgative effects I have used it with advantage in doses of from 20 to 30 grains of the root in powder as a cathartic This powder is also used as an escarotic in cases of fungous excrescences it may also act as a Diuretic in consequence of the warm water taken with it

Polygela Senega This is possessed of considerable cathartic powers & may be exhibited in doses of ʒi to ʒß it is possessed of Diuretic qualities —

Sulphur The flower of Sulphur is an excellent cathartic very moderate & gentle in its operation it is given in doses from ℈ss to ʒiij it is frequently joined with Cremor Tartar it is less apt to relax the intestines than the neutral salts it does not gripe —
It is well adapted to the constitutions of children —
Physicians have disputed whether or not sulphur is taken into the circulation or not Some say it blackens silver watches in the fob of those to whom it has been externally applied (rubbing on the skin) by the volatilization of it & no other means. Others say it tinges silver in the pockets of those who take it internally if this is

the —

the case we may suppose that it is taken into the circulation But we know it is difficult of solution in the fluids of the Human Body it is said to be an excellent remedy in the cure of Psora or Itch taken internally But I think it worthless

Oleum Ricini This is obtained by expression or boiling from the seeds or nuts of the Ricinus Communis of Linn) The dose is from ℥ss to ℥i & sometimes from rare cases from some peculiar Idiosyncrasy it requires to be given in doses of ℥ij or ℥iij it is used in Cholica Pictonum & Dysentery children take it in Mo lasses & Adults in Wine or Brandy & sometimes in a cup of coffee In cases of Dysentery the following is the formula in which I generally prescribe the Castor oil Rx Ol Ricini ℥ij Sacc Alb & Gum Arab aa ℥iij M well together & add Liquor Plumbi gutt 60 & Aq Font ℥viij of this Dose a table spoonful every 2 or 3 hours

Fructus Tamarindi This is the best cathartic that can be employed it is an important article in the Mat Medica & one of our Mildest purgatives

Bile Humana This was formerly used as a cathartic it ought to be left out of the Dispensatory

Calomel of this I shall merely observe that it is an useful cathartic.

Of the Saline Cathartics or Laxatives and first of the

Sulphate of Soda or Glauber Salts This is a very excellent medicine & may be exhibited ℥i or more as the case may require it is very disagreeable to the taste which may be remedied by the addition of Lemmon Juice or Cream Tartar

Dr Lee

The Sea Water is an excellent remedy in Scrophulous cases taken in the quantity of one pound or more daily We may make artificial Sea water by dessolving the glauber salts & common Salt in common water

Diuretics There are medicines which promote & increase the secretion of the kidneys this may be done in two ways viz by increasing the quantity of water in the blood or by introducing matter ~~into~~ that may prove a stimulus to the kidneys Diuretics are derived from the Animal Vegetable & Mineral Kingdoms

Of those from the Vegetable Kingdom

Digitalis Purpurea or Fox Glove Altho this plant is known by the name of purple yet it is merely accidental since we find it frequently bears a white blossome or flower which is of equal power as a medicine. Every part of this plant may be used in common practice but the leaves and stems are in most general use When the Fox glove grows in a rich soil either in the sun or shade it does not losse those properties which are peculiar to it in so eminent a degree when it grows in shade or in the most sterile fields — The Digitalis is an important Diuretic medicine it is also possessed of Emetic and cathartic properties. It is a powerful & deadly poison when carried too far the leaves of the plant are extreamly nauseous & disagreeable to some but to me they are not more so than Tobacco I have determined the question whether it should be placed among the Sedatives or stimulants and place it among the last yet it may always be managed to produce sedative effects — If it be given in too large and frequent doses it produces nausea bloody vomiting vertigo false perception & Delerium &

rium & death — indeed its effects appear to be as violent or more so than the effects produced by too large a dose of Tobacco Squills Datura Stramonium Helebous Nige &c — as in small dose its effects are similar —

Dr Withering says that Digitalis excites the apetite while using Digitalis patients should drink very largely as indeed they ought to while taking any of the Diuretic medicines —

The Fox glove is considered as a very dangerous medicine that it is I will not deny but I think it very seldom if ever does harm in the hands of cautious & judicious practitioners —

I think that most of the cases of death said to be produced by it would of accord had not the patient been under its use & particularly of ille with Hydrothorax who it is well known die very suddenly Mr Humphreys used Digitalis for Hydrothorax which not proving of service was left off and squills given for sometime he at length died very suddenly & unexpectedly now had he been taking Digitalis it would have been said that killed him — We are told & I may say from my own practice that whenever Digitalis proves purgative we have but little to take from it in whatever disease it may be exhibited we are also informed that whenever this medicine fails no advantage can be derived from any other medicine from this however I take the liberty to depart as we find the Squills and also the Gamboge serviceable in cases where the Foxglove had failed —

Dropsy In this disease the Digitalis has proved frequently successful Dr Ferrier used it in 27 cases of this disease 12 of which were cured 7 relieved & the others received no benefit from it Dr Darwin used it in combination with Opium & says that it was most efficacious in this way Withering says he found it very useful Dr Currie on the contrary is not —

not found of Digitalis in Dropsy he says that it is a deleterious poison and produces great debility by which it does much harm in this disease where there is much tension of parts we are told it is of little service. When exhibited in proper doses it is a mild remedy & very efficacious When there is great debility produced by too sudden or speedy an evacuation of the water and an am patient is reduced almost to the state of death I have found it in preference to opium or cantharides that large quantities are more effectual and advantageous in increasing & restoring strength by the Digitalis I have cured two cases of Hydrothorax when there was little hopes of success = I have given it in powder infusion & Tincture but I think the powder is more certain in its effects & have therefore preferred it to either of the other preperations we are told it may be exhibited in any case of dropsy (& with advantage) except the encysted But Dr Thurne tells us that he has used Digitalis in ascites & that he found it rather injurious in this form But in Hydrothorax & Anasarca it was of evident advantage I have met with two cases of Ascites in which it was of evident advantage But in many other cases I have found this medicine very ineffectual Dr Currie says that the Digitalis effects the nerves very powerfully & therefore continues the Doctor it is an improper remedy in Dropsy as they depend on affections of the nerves no system. But I think I can say that many cases of dropsy seem to depend on inflamatory diatheses of the system ——

On Hamorrhages Dr Currie and some others strongly recommend this medicine in Hamorrhages But I have found it by no means equal in efficacy to the Plumbum Ace

tatum

tatione in thos diseases - It appears that Dr Fothergill used it with advantage in Hysmoptoris -

Insania The Digitalis has been recommended but I have seldom seen it of service in this disease it reduces the pulse very much without effecting the Brain it was tried in the Pennsylvania Hospital in several cases of this disease but none were cured

Dr Pleuria The Digitalis has been used with advantage by Dr Hosking I used it in a case where the catheter had been introduced several times with success several grains were exhibited in the course of a day I also cured a Mr Leiper of this disease he took half a grain thrice a day

Dr Phthisis Pulmonalis The Digitalis has been recommended Dr Sauer used this medicine one hundred years ago in this disease in the form of Syrup he says he cured a number of Phthisical patients after they had been given over by other Physicians to his credit & emolument = It has been employed by many practitioners in this disease I have used it once with success but do not think it preferable to the Vibriatic Ether -

In suppression of urine I prescribed 90 gutt of the Tincture of Digitalis with the happiest effect to the speedy relief and cure of my patient -

Insanity I used the Digitalis in the Pennsylvania Hospital in one case with success -

Angina Pectoris In one and the only case of this disease in which I ever used Digt a complete cure was attained it was -

employed after V S & Blisters had been used to little or no advantage It has been said to produce salivation It has a wonderful effect in lowering the pulse.

Polygala Senecka. This with its Diuretic effects possesses a cathartic expectorant Salivating & Diuretic powers Dr Boilson found it to increase the force and frequency of the pulse and the secretions of the salivary glands -

At 11 Oclock A.M a Gentleman took 24 grains of the powdered root of Seneka in water his pulse beating 92 in a minute

	Minutes										
In	5 =	10 =	15 =	25 =	30 =	35 =	40 =	45 =	50 =	55 =	60 = 80 —
	Strokes										
Pulse	94 =	96 =	98 =	99 =	99 =	100 =	100 =	97 =	96 =	94 =	92 = 92 —

The Seneka has been observed to produce genuine salivation A Lads had Hydrothorax she took it in large doses and a salivation was produced which was very copious & lasting it continued for several weeks and so perfuse was the Ptya linn the she was much debilitated and was obliged to check it during the time of salivating she had a peculiar fatid breath similer to the fator of Putrid fever —

Dr Perrent says it is also emetic: he says he used it in Pneumonia & with success, but I am warranted in asserting that he gave it in Peripneumonia Notha and not in the true Pneumonia do not think it adapted to Pleurisy —

Cynache Trachealis The Seneka has been used in this disease upon the recommendation of Dr Archer of Maryland I have used it by itself with success & frequently in combination with calomel Blisters and V S — are sometimes used as Auxilliaries — The dose of seneka is not precise the saturated Decoction can be given very largely it should be made of the powdered root = In giving the decoction if it purges the dose should be deminished but if it purges increase the dose —

Cynanche Maligna Shave used the Seneka in several cases of this disease with compete succes —
The Polygala Senka has come officinits to the Synaicum of 13 persons with Ascites to whom the Seneka was administered six were perfectly cured — Dr Munro employed this medicine in Tetenus & Dr Donald Munro cured a case of this disease by the use of Seneka A friend of mine informed me that he knew a case of Tetenus cured by the use of Seneka Poly g. c

Nicotianum Tobaccum The Tobacco is nearly allied in Botanicae affinity to the Digitalis or Foxglove in infusion its an excellent Diuretic Dr Fowler used the following infusions with great advantage in Dropsy & sometimes with success Ry leaves of Tobacco Zi Boiling water Zvi poured on the Tobacco & suffered to stand until cold or longer then added Zij of Rect — Spt of Wine Dose from 40 to 200 drops 2 or 3 times a day but Dr Fowler thinds 80 drops twice a day is sufficient for an Adult though he frequently gave Zi at a dose of 31 patients in Dropsy to whom he exhibited this infusion 10 were completely cured & 18 very much relieved it is not a great while since Tobacco has been introduced in to the Mat Medica —

Scilla Maritima (of Linn) The Squills or sea onion is found growing spontaniously on dry sand & shores in Spain & in the Levant from whence the parts used in medicine (ie) the root is usually brought into Europe it should be chosen plump round & full of clammy juice the common dose of the dried root is from 3 to 6 grains either in powder or pills 4 gr of the dried root is sufficient for most adults —

and

and equal to 20 or 25 of the recent squilles - The squille is
also used in Tinotare with Aplz or vinegar & hence called Acetu
or Scillitic.um or made into an oxymel and given in doses of
Zij or Zijj with some aromatic water as that of cinnemon to
prevent nausea which it is otherwise apt to excite for those pu
poses see the Dispensatorys the squille is certainly one of the hot
articles in this class of medicines The juice of this plant is
the part most commonly used — Squills are extremely acrid
Camels refuse to eat their tops altho they feed upon the top
of briers & thorns Cats Dogs mice &c are soon destroyed by
its deleterious properties when compelled to swallow small
portions of them There is one case mentioned of the death of
a woman who had taken but 3ß of dried squills - In an
other case this medicine proved fatal where a quack had gi
ven a table spoonful of the dried powdered root at a dose
the patient died in a very short time afterwards upon ex
amination the stomach was found inflamed and in one case
eroded In cases where death is induced from an over por
tion of this medicine it is preceded by Cardialgia Vertigo
nausea delerium Lubentes Tenesmus Convulsions &c
Dr Home used this medicine in Dropsy and he thought it
necessary that vomiting should be produced before it would
be of service Dr Cullen thought that some operation on
the stomach was necessary to the beneficial action of it
he also thought that when it acted powerfully on the stom
ach no Diuretic effect was produced Dr Withering & mostly
thinks otherwise we are advised to combine with it some
neutral salts to give it a more direct determination to the
urinary organs & it is thought to be more efficacious. —

Some combine with it some of the mercurial preperations while others condemn the practice it has been my practice to employ this combination & I give the preference to the Iodide mineral rather then any other preperation of mercury I give it with a design to produce nausea and thereby ink its value increased thereby —

Dr Lisbon used Nitre in combination with squills & so did Some but do not think the practice good in all cases for when there is a relaxation of the abdomen Nitre cannot fail to do harm

The Acetum Scilliticum is a powerful attenuent medicine & is given in doses from ℥ß to ℥iß and sometimes even ℥ij —

The oxymel is also used as an attenuent in doses from ℥ß to ℥ij and as an emetic from ℥i to ℥ij Dr Spry Genelin & Jurin used it in Dropsys externally applied with advantage, The limbs Abdomen &c were bathed rubbed &c with the Acetum Scilliticum & oxymel of Squills It has the effect of lowering the pulse —

In Hydrothorax I have found this an excellent remedy attending the exhibition of it with calomel & find the preperation of calomel an excellent preperation for the exhibition of squills — I have already mentioned the dose to be from 3 to 4 gr and I may add that in no instance could I advise you to exceed 4 grains at a dose tho you have found that the medicine is not of its proper strength. —

Colchicum Autumnale of Linn or common meadow saffron this is a native of England the root is said to be diuretic and an oxymel has been directed it has been highly recommended in Dropsy — I have never used this article a —

Lactuca or Lettuce I believe every species of Lettuce that we are acquainted with possessd more or less of Narcotic qualities & we know a powerfull opium has long since been extracted from this plant one are told that it is possessd of powerfull Diuretic properties prepared & exhibited in Decoction I have never used this medicine. c

Scolymus Cynara or Artichoke The leaves of this plant enter into the Diuretics compositus so much used by the people of Europe it has been of service in some cases of Dropsy produced by diseased liver Dr D— used this article while using the Digitalis in the intervals — The expressd juice of the leaves has been given in Dropsy & in some instances it is said with success after other remedys had failed

Helleborus Niger or Black Hellebore I know nothing of the diuretic qualities of this medicine from experience it is said to have been exhibited with great advantage in Dropsies the extract is the preperation used in Europe It produces copious aqueous evacuations and sometimes acts as a diuretic = This medicine is the basis of Berchers Tonic pills for the Dropsy —

Cambogia Gutta of Linn) Dr Shoenham gave grs x of this medicine at a dose in Dropsies on account of its Diuretic effects in small doses and frequently repeated it has been of some use & when used in combination with abstats of Tartar its a powerfull Diuretic It has also been recomended in combination with the Alkalies

Siliquosæ Those plants have also a claim among this class of medicines & first I will speak of —

Cochlearia

Cochlearia officinalis of Linn) This certainly promotes a flow of urine it is particularly celebrated in Scurvy since its common name Scurvy grass

Raphanus Rusticanus The Horse reddish has been used in Dropsys Palsys & Scurvys a strong decoction is made of which the patient drink 1 or 2 ounces twice or thrice a day it is a very valuable diuretic & is good in Dropsies without fever where there is great debility I have found it to be very valuable in Gleets — It sometimes produces salivation it increases the secretion of the skin as well as the kidneys it sometimes produces strangury —

Sinapi Mustard seed also possesses considerable diuretic qualities for which reason they are used in Dropsys they are also used in Palsys —

Alliacia These also demand our attention as Diuretics —

Alliacum Porrum Dr D. Monro used the juice of Leeks in two cases of Dropsy with considerable advantage — all the Alliacia act on the skin bloodvessles & kidneys

Allium Sativum or Garlic This is a good diuretic & has been employed in Dropsies with fever Dr Denham employed it and Dr Cullen thinks it useful in most cases of Dropsies —

Of Animal Diuretics. These are few

Millepedes or wood lice) These are found in cellers & rotten wood they have a sweetish faintly taste they have been greatly celebrated for their diuretic qualities & have been used in Dropsies — I have not used them & think they should be rejected entirely ——

Canthardes or Melae Vesicatorius of Linn

The Tincture of Canthardes is celebrated for being a powerful Diuretic
It has long since been used in Dropsies with success. Wearnehuff used
it with great advantage & says he seldom failed of completing a cure
with it on the other hand Dr C Smith says he found it of little ser
vice & it is surprising that eminent Physicians should differ so
much in their opinions of this medicine they both speak of it
from experience & they both can't be right. How are we to deci
de from such contradictory facts probably the different re
sults experienced by each arise from the exhibition of the
medicine in different stages of the disease = for I often have
cured with success in the beginning of the disease yet
death would follow V S — in the 2 or 3 Stages there we see
the same remedy may be used with exactly opposite effects
in the same disease — and the statement of facts which
are true appear contradictory because the authors do not
mention the state of the system & disease when they first us
ed Dr Home gave the Tincture of canthardes in 9 cases
of Dysphonia mutica & says he found it a safe & powerful
medicine He was not fond of Blisters & yet applied them
to the temples his dose of the Tincture was 20 drops thr
ice a day — I have used it frequently beginning with
small doses and increasing it sometimes to 200 Drops
a day I cured one case of Hemiplegia by this means
I began with 10 Drops & increased it to 100 Drops thr
ice a day But in general I would not advise it to begin
en beyond 30 or 40 Drops at a dose —
It may also be given in pills & powders. a —

In diabetes We are told the cantharides has been found of great service in this disease Dr Morton says that Cantha are a specifick this disease Dr Rutakes thought very favourable of it & says it was frequently successful in his hands Dr Chalmers of S Carolina gave it to a patient labouring under this disease in a most violent degree to the quantity of 4 gr at bed time by which he obtained a cure he also cured a patient of Acites by giving 4 gr at night an hour before bed time (of Pul. Canth) the patient evacuates an immense quantity of urine during the night and the swelling immediately subsided —

In cutaneous diseases The cantharides have frequently been used in these diseases with considerable advantage Dr Monro used this medicine in Herpes and he also cured Psora with it — A Physician it is said gave Tinct canth in hooping cough with success —

In Lymphatic and obstinate ulcers This medicine has often been employed with success the following formula I have found of infinite service in these diseases and particularly in ulcers Rx Tinct Rhei ℥ij Tinct Guaiac ℥ij Tinct canth ℥iij Spt vini Rectif ℥ij of this an adult can take a table spoonful thrice a day —

Diuretics obtained from the Mineral kingdom

Neutral Salts There are all Diuretic except the Muriate of Ammonia and no doubt but what this is also but owing to its being so powerful an incitant we are not able to give it in such doses as to show its diuretic effects All

the salts with an alkaline base are diuretics But those with a base of Alluminous earth is not

Sal Diuretic I have little experience of this medicine myself but many other Physicians have recommended it very highly Dr Pettigrew says he has known it useful and from its having received the name of Sal Diuretic we are induced to believe it is a powerful diuretic

Nitrate of Potash This might be arranged among the nitrates as I know it to be a powerful stimulent in large doses it produces strangury bloody urine inflamation of all most all the viscera & death Nitre disagrees with some persons I knew a case of a gentleman in London who had a paralysis produced by taking ℥i of this medicine daily for an affection of his Head It is used with great advantage in the Phil. Dispensatory as an expectorant with great success It is generally given in small doses & frequently repeated

Cream Tartar or the Acidulous Tartrite of Potash This is a powerful diuretic Dr Home used it with success in dropsy He says he never had a patient to relapse who was cured by the Cream Tart Dr Fowler gave it to 10 patients labouring under Dropsy & succeeded & the others relieved it produced 4 or 5 stools a day and lowered considerably the urine he dosed from ℥i to ℥ij of Cream Tart in a pint of water and gave it all in the course of a day Dr Rush speaks very favourably of its use and I have several times used it with success —

℔ of alkalies They have been recommended in Dropsies they have been combined with Juniper Berries & Spiritus æthereus & exhibited in ℔ Drachms with advantage and also combined with Opium &c Mead was in the habit of giving 20 gutt of Laudanum with ʒij of the Lixivium Tartari and ℥i of water at bed time he found this practice very useful he was in using ℔ Dr Wilkin affections Dr Cullen is at a loss to account for the effects of Alkalies —

Muriatic Acid This has been used as a Diuretic I think it an useful remedy in ℔ Dropsies & believe it may be Diuretic as many have said but I am inclined to think it is the water that is taken along with it and not entirely the Acid which proves Diuretic Dr Rhune ~~who~~ of this city used it with success in Dropsies & Contrictin cases Dr

Anthelmintics Those are medicines which are employed for the purpose of destroying & expelling worms which infest the human system from it — And before treating of these medicines I deem it necessary to say something of those worms — There are several different kinds of worms which distinguish us — viz — the Tænia Lata. Ascarides. & Lumbricales or Lumbrici are those which are most common the generation of which is a subject extreme difficult and dark to medical Searchers & has given rise to various opinions Some endeavour to maintain & indeed some facts seem to prove that they all have their origin out of the system But others think them — or rather some species of them congenial to man.

The

The Tania has been found in certain waters in Siberia and the Ascarides have been found in new rich soil But the Lumbrici have not yet been discovered out of the Human bodys —

Vallisneri thought that wormes was bred ~~from~~ in us paping from the Placenta and the milk of the mothe & thus continueing from generation to generation —

Spalanzini says he saw wormes in the semen which he called vermicula Seminosa he also says that he saw no animels in the blood & observes when thrown from their abode they obtain life — The Lumbrici are the most common and are generally found in the small intestines tho they sometimes ascend to the stomach as is evident from their being sometimes discharged by vomiting they are of the viviparous class of Animels as appears by Authors who tell us they bring forth their young alive & complete as to their form the number of these wormes in individuals are sometimes very great in one case related by good authority it amounted to 1000. The Ascarides is a worm that is generally found in the rectum both of men & Horses they produce great irritation & the most disagreeable & distressing sensations —

The Tania is a worm which like the Lumbrici appears to be congenial & which grows to a great length we are told that this worm is slow of growth unless it be broken when it increases rapidly —

The symptoms of worms are frequent sneezing and burning pain in the Abdomen disagreeable breath

— or —

a peculiar factor Nausea & vomiting which is some times attended with frothy matter & a sense of choaking the abdomen is hard & tumid picking & rubbing of the nose livid or pale countenance attended sometimes with fever & frequent flushings starting in sleep an inordinate & insatiable appetite. Convulsions Epilepsy delerium Hypochondriasis & Hydrocephalus internus Melancholia & other distressing diseases — Dos not believe that worms are at all times productive of disease as. I think that Lanea Lata has long existed in the human system —

Dr. A some says the only pathognomic symptom of worms is a swelling of the upper lip & also nose of an Deleterious nature I believe that these symptoms never yet deceived I suppose that almost all kinds of animals are subject to some kind of worms —

Of particular Anthelmintics

Spigelia Marylandica

The pink root is found in S. Carolina & Georgia & in several other states It does not grow farther north than Maryland its a perennial plant & every part of it may be used in medicine but the root is much the strongest it is a very safe article & the best Anthelmintic yet known & as such it is in general use it sometimes proves emetic & cathartic The dose of the powdered root for a child 12 months old is 4 grains for one 3 years old 8 grains for an adult from ℥i to ℥ij pink root sometimes if taken in large doses produces delitation of the pupils pain in the head & convulsions I am of opinion that there is something very deleterious in the Spigelia and

and think Dr Thompson is wrong in saying that it is not deleterious to animal life because I have seen two cases in this city in which over doses of this medicine proved fatal both were children)

Its anthelmintic effects are not discovered until some degree of narcotism be produced from which circumstance it appears to be a stimulus -

Some of our Apothecarys pass those effects are produced by a vine which is entwined round the Rhizoma & that if we are careful to remove it no such effects follow the use of the pure root

It is a very efficacious remedy and the root ought always to be employed in preference to any other part of the plant in combination with Virginia snake root it seldom fails to move the bowels -

Helleboraster or Hellebores foliüs of Linn)

or Bears foot. The leaves of this plant are purgative and in the form of powder are powerfully anthelmintic This medicine is generally taken to excite vomiting Dr Wythes ulcerated worm powder was formed of Bears foot and Lorkith mineral which was added to disguise it -

I think it best for children when between two & 6 years old the dose should be from ℈ß to ℈j it should be given at bed time - Its a very common plant in Maryland

Geoffraa or Cabbage tree This tree is found in Jamaica the bark of which is of a grayish colour externally but black -

black & furrowed internally it has a smelish taste & dis agreable smell it is the Bark that is used in medicine and is exhibited in the form of powder Decoction Syrup & Extract the powder is given in doses of ℈i to ℈ij but the Decoction is generally preferred it is made by boiling ℥i of the fresh dried bark slowly in a quart of water till it assumes the colour of Madeira wine this sweetened forms the syrup & when evaporated forms the extract &c

This medicine is Laxative emetic Narcotic & Anthelmintic It is in my opinion a very efficacious remedy for the worms & Dr Rush has a high opinion of it &c

Filix Polypodium Filix mas of Linn) or Male Fern this has been employed in medicine for many ages & yet its virtues are to be determined

Madam Nauffer acquired great celebrety by employing as a specific in worms It is said to be particularly adapted to the destruction and removal of the Taenia or Tape worm It is said to have cured after all other Anthelmintics had failed But Dr Cullen expresses considerable doubt concerning its Anthelmintic powers. To the taste it is mild & gently astringent it is composed of gentle astringent qualities = It is recommended that a mercurial Cathartic should be given a few hours after the Fern is exhibited — The dose of the pow for an Adult is from ℈i to ℈ij It flourishes in many parts of Pennsylvania & New Jersey —

Dolichos Pruriens of Linn) Cowhage This is chiefly found in warm climates it is the down of the pods of this plant that is principally used as an Anthelmintic medicine —

medicine mixed with molasses or made into an electuary
the dose according to Graves is from 5 to 10 grains once
or twice a day He thinks a purge should be interposed
once in two or three days I think an Adult may take
3ij of this medicine at a dose it is an excellent Anthel
mintic & I think it acts mechanically the spicula
piercing the worms by which irritation they are expelled
from the intestinal canal what appears to confirm this
fact is when exhibited in Tincture Decoction or Infu
sion it is of no service & in consequence of this me
chanical action we should not exhibit it if we have
reason to suppose the intestines in an inflamatory
state

Alumn Ricini This has been frequently used as
an Anthelmintic But it is my opinion that it dis
charges the worms merely by acting as a cathartic

Valeriani Sylvestris This has been highly recommended
and often used as an Anthelmintic it has been of great
service in destroying worms when taken in large doses
It has been used in Epilepsy & in one case the disease
appeared to be cured by this medicine a great number of
worms were discharged which I think a proof of its
Anthelmintic virtues

Aloes When this medicine is given internaly it can
only act as a bitter cathartic in destroying worms
it has been used of late with success in ascarides
made into a solution and mixed with milk & given
by way of injection of Aloes 3ij may be rubbed down

drawn and mixed with ʒ or ʒij of milk This is the form of the injection I would recommend this seldom fails to remove the Ascarides & prepare a more. many other bitter medicines have been recommended as Anthelmintics but have found that worms live appear while out of the body in bitter infusions therefore we can pl are no confidence in their effects —

Pride of China tree This is a powerful Anthelmintic the medicinal virtues of this plant reside in its root which is given in substance or saturated decoction the decoction is certainly the best way of giving it Pida Durib Theis) upon this medicine it is very injeni ous yet the subject is by no means exhausted much remains to be known concerning it —

Mercurius Dulcis This is the best Anthelmintic with which we are acquainted it may be exhibited in doses accommodated to the age of the patient from my own experience I can can say this is an excellent & powerful Anthelmintic. It may be exhibited to children of any age with safety It destroys the round worm very certainly & frequently the thread worm —

Corrosive Sublimate has also been very highly extolled as a Vermifuge it may be given in solution with the muriate of Ammonia according to the age and strength of the patient — It may also be given in pills —

Ammon —

Stannum or Tin The powder of tin was formerly used in worms & was esteemed very highly but it is now seldom employed it may be given in doses from ½ to 3ij to adults and to children from x grains to 3ij two or three times a day I think the medicine acts mechanically when it destroys the worms

Muriate of Soda Common salt has been used for some time as an Anthelmintic Salt water has been given children & adults with the effect of bringing away large quantities of worms — To a Child aged 5 years & gave 3ij of salt water it purged and puked violently & brought away upwards of 100 large worms = 3ij of Salt dissolved in two gallons of water and 3ij drank daily has succeeded in destroying worms after some of the most celebrated Anthelmintic medicines had failed — A strong solution of salt thrown up the rectum has frequently removed Ascarides = The vapours of Camphor thrown up the Rectum is also an excellent remedy for Ascarides it always brings them away dead or alive —

I think the preperations of Iron & all the Tonic medicines have been too much neglected in the treatment of children for worms Bark ought often to be used for we find them frequently thin & emaciated without appetite or digestion

Diet and Regimen There in children effected with worms should be generous Meat of different kinds Butter &c should be allowed them Their drink should be Port wine Negus &c They should also be allowed to eat largely of Sugar For from experiments on frogs & worms we find that sugar

&c

is a powerful cathartic and as it destroys them & proves very nutritious it should be used

Externae Applications a poultice of Tobacco applied to the umbilical region has in some cases been effectual in removing worms Also applications of some of the bitter herbs I think I have found a Blister applied to this region very effectual in removing worms ~

Menagogues Emenagogues are those medicines which are supposed to act directly on the uterus & removing obstructions and promoting the menstrual discharge But these medicines frequently disappoint us in our expectations of success.

Particular Emenagogues.

Asafatida This is one of the best Emenagogues it is frequently used in large doses ~

Crocus Sativus Saffron is not a very powerful Emenagogue & therefore seldom prescribed by regular practitioners ~

Castoreum Castor has frequently been used with success when the pulse was low & weak & the system relaxed ~

Hydrargyrus This is an universal stimulant & can be given in suppression of the menses with advantage but did not employ it in these cases

Rubia Tinctorum Madder has been frequently used Dr Home of Edinburgh employed it & have used it with manifest advantage in doses from ℥ss to ℥i 1-2 or 3 times a day Madder certainly happens more power than it appears to exert on the system I have known it to produce abortion —

Though it is generally given in doses from ℥ss to ℥i it may be given ~~from~~ to the amount of ℥ss or an ℥i three or four times a day —

Juniperus Sabina Lin Savin has been used since the time of Galen as an Emenagogue I have used it in powder Tincture & oil The oil is certainly the most powerful — It has been employed by wicked people for the purpose of producing Abortion In Germany there is a restriction on it by law lest it should be frequently employed to produce Abortion It has been used for the purpose of expelling the placenta &c Rd Dr Monro used a Decoction as a wash in venereal warts Chantors

Emetics I believe in many cases prove Emenagogue & I think they should be employed in suppression of Menses

Rosmarinus officinalis This has been used with great advantage in Febris Alba and other affections of the Uterus I have prescribed a tea spoonful of it to the advantage of my patients

Electricity This from its universal stimulus on the whole system has been recommended as an Emenagogue there are three methods of employing Electricity for the cure of diseases 1st by insulation 2 Sparks & 3 Shocks the last when received from a charged Phial is certainly the most dangerous It has the effect of increasing the pulse in force & frequency exciting the action of the ulterior heart increasing the heat & perspiration of the system Sparks drawn from the skin repeated by for a long time will cause vesications —

As an Emenagogue it has been used with success for the shocks should be employed —

Electricity has been used in opthalmia with success and in Gutta Serena Rheumatism & Palsy it has been used in Epilepsy & Catalepsy. —

Exercise & Diet Well regulated exercise & diet are the best Emenagogues & unless they are attended to medicine will not do much good —

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